

AREVA Sachsenwerk GmbH Geschäftsbereich Energieverteilung Fachbereich Mittelspannungsschaltanlagen Königsbrücker Strasse 124 01099 Dresden Tel.: 03511820-3394 Fax: 03511820-2602

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80

INCOMING FEEDER
CIRCUIT DIAGRAM

A = L01 / A01

D009781.02. 601-3. AHA

50.3023.01.A3.741.223
COVER SHEET
PANEL
01

DATE :	06.06.2005
prep. :	ADAM
Check:	GROHMANN
Norm :	

22.12.2006 HJ0115MD
00978102
=L01
A01
ADAM

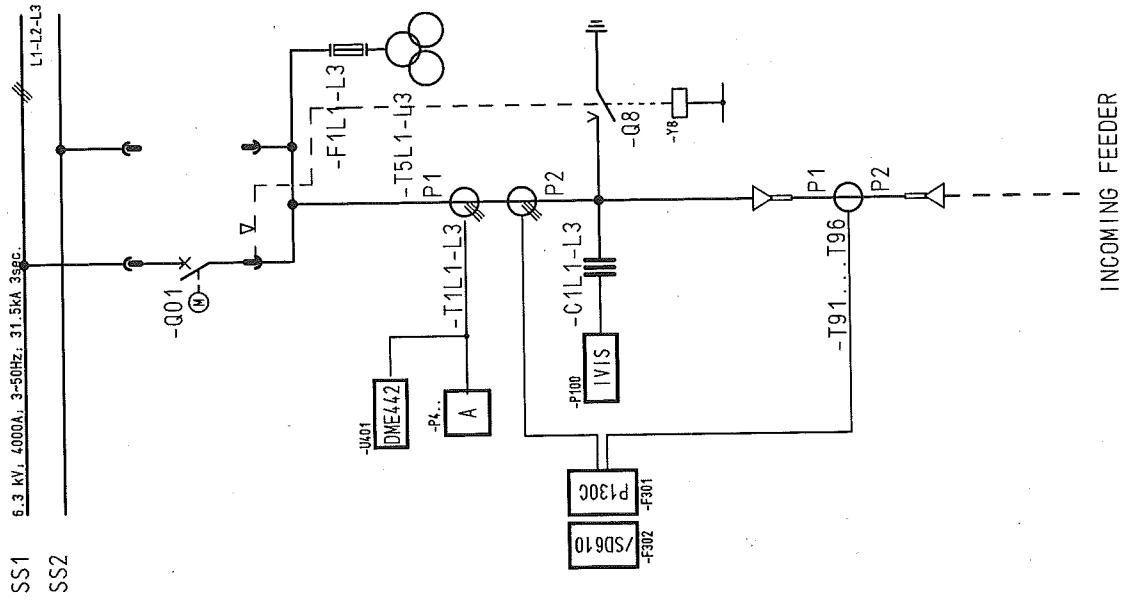
03 AS BUILT	05.12.2006	AD
02 Fact.-Rev.	09.11.2005	AD
01 Approval	20.09.2005	AD
Nr. Alteration	Date	Name

INSTRU. AND CONTROL				
FUNCTION	LOCAL	LOCAL CONTROL	REMOTE CONTROL	REMARKS
CONTROL	-Q8 -Q01, -Q02		-Q01, -Q02	
STATUS SIGNAL	-Q01, -Q02, -Q8		-Q01, -Q02, -Q8	
MEASUREMENT	I (L1-L3)		I (L2), U(L1-L2) P (P2), Q(Q2)	
PROTECTION	WICOM P130C 27.32.46.48.49.50P.50N.50BF.51.51N.59.59N.66.67.67N.79.810 81U.86 ANSI: 49.50.50N.51.51N.50HS.50BF.79.87 SIEMENS 7SD610 + 7XV75			
METERING				

TECHNICAL SWITCH DATA				
DESIGN	MANUFACT	TYP	RATED CURRENT	BREAK. CURRENT
-Q01	AREVA	ECA 12-50-31-21	4000A	50KA
-Q8	AREVA	KBE 80/12-2		

TECHNICAL TRANSFORMER DATA				
DESIGN	MANUFACT	TYP	RATIO	VDE
-T1L1	AEG	CT12	4000/1/1A	C1: cl. 0.2FS5 15VA
-T1L2	AEG	CT12	4000/1/1A	C2: cl. 10P10 20VA
-T1L3	AEG	CT12	4000/1/1A	
T91...T96	AEG	RKT 250/160 Gr.3	60/1A	C1: cl. 3FS5 1.2VA
-T5L1	AEG	EYEB		
-T5L2	AEG	EYEB		
-T5L3	AEG	EYEB		
-F1L1	AEG	2A		
-F1L2	AEG	2A		
-F1L3	AEG	2A		
-C1L1	AREVA	IVIS		
-C1L2	AREVA	IVIS		
-C1L3	AREVA	IVIS		

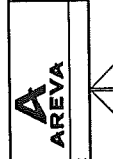
NO.	Alteration	Date	Name/Std.	2	3	4	5	6	7	8
03	AS BUILT	05.12.2006 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA					
02	Fact.-Rev.	05.11.2005 AD	Drawn	ADAM	50.3023.01					
01	Approval	20.09.2005 AD	Check	GROHMANN	SUBSTATION T80					
			Orig.	Iss.for	Iss.by:					



NO.	Alteration	Date	Name/Std.	2	3	4	5	6	7	8
03	AS BUILT	05.12.2006 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA					
02	Fact.-Rev.	05.11.2005 AD	Drawn	ADAM	50.3023.01					
01	Approval	20.09.2005 AD	Check	GROHMANN	SUBSTATION T80					
			Orig.	Iss.for	Iss.by:					

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22.12.2006
HJ015MD
ADAM



CIRCUIT DIAGRAM

50.3023.01.A3.741.223 A=L01

NO.	Alteration	Date	Name/Std.	2	3	4	5	6	7	8
03	AS BUILT	05.12.2006 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA					
02	Fact.-Rev.	05.11.2005 AD	Drawn	ADAM	50.3023.01					
01	Approval	20.09.2005 AD	Check	GROHMANN	SUBSTATION T80					
			Orig.	Iss.for	Iss.by:					

03	AS BUILT	05.12.2006 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
02	Fact.-Rev.	09.11.2005 AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005 AD	Check	BROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Orig.

1	2	3	4	5	6	7	8
CLIENT DOCUMENT NUMBER	RELEASE BY DOCUMENT NUMBER	VERSION STATUS	DOCUMENT IDENTIFICATION SORT MATCHING	ITEM NO.	SHEET	DESIGN	
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	A =L01	A01	1	COVER SHEET	01
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	A =L01	A02	2	CIRCUIT DIAGRAM	01
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	A =L01	B01	3	Inhaltssverzeichnis	01
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	A =L01	B02	4	Inhaltssverzeichnis	01
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	A =L01	B03	5	Inhaltssverzeichnis	01
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	A =L01	B04	6	Inhaltssverzeichnis	01
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	A =L01	B05	7	Inhaltssverzeichnis	01
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	D01	8	CIRCUIT DIAGRAM	AC-DISTRIBUTION
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	D02	9	CIRCUIT DIAGRAM	AC-DISTRIBUTION
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	D03	10	CIRCUIT DIAGRAM	FAN A
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	D04	11	CIRCUIT DIAGRAM	FAN B
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	G00	12	CIRCUIT DIAGRAM	CBF
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	G01	13	CIRCUIT DIAGRAM	DC DISTR.
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	G02	14	CIRCUIT DIAGRAM	RING CIRCUIT
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	L01	15	CIRCUIT DIAGRAM	CIRCUIT-BREAKER
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	M00	16	CIRCUIT DIAGRAM	MOTOR DRIVE
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	M01	17	CIRCUIT DIAGRAM	CONTROL
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	M02	18	CIRCUIT DIAGRAM	CONTROL
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	M03	19	CIRCUIT DIAGRAM	CONTROL
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	M04	20	CIRCUIT DIAGRAM	CONTROL
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	M05	21	CIRCUIT DIAGRAM	CONTROL
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	M06	22	CIRCUIT DIAGRAM	CONTROL
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	N01	23	CIRCUIT DIAGRAM	ARC DETECTOR
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	N02	24	CIRCUIT DIAGRAM	ARC DETECTOR
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	P01	25	CIRCUIT DIAGRAM	INTERLOCK
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	P02	26	CIRCUIT DIAGRAM	INTERLOCK
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	001	27	CIRCUIT DIAGRAM	POSITION INDICA.
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	002	28	CIRCUIT DIAGRAM	INTERFACE
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	003	29	CIRCUIT DIAGRAM	INTERFACE
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	004	30	CIRCUIT DIAGRAM	INTERFACE
50.3023.01.A3.741	D009781.02.601-3.AHA	01 02 03	S =L01	005	31	CIRCUIT DIAGRAM	INTERFACE



Inhaltssverzeichnis

A=L01

Typ: 01
INCOMING

D009781.02.601-3.AHA

Sheet 3
135SL

1	2	3	4	5	6	7	8
CLIENT DOCUMENT NUMBER	RELEASE BY DOCUMENT NUMBER	VERSION STATUS	DOCUMENT IDENTIFICATION SORT MATCHING	SHEET ITEM NO.	DESIGN		
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	Q06	CIRCUIT DIAGRAM PANEL	INTERFACE 01	
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50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	Q09	CIRCUIT DIAGRAM PANEL	SPARE CONTACTS 01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	Q10	CIRCUIT DIAGRAM PANEL	SPARE CONTACTS 01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	R01	CIRCUIT DIAGRAM PANEL	SIGNALLING 01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	R02	CIRCUIT DIAGRAM PANEL	SIGNALLING 01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	R03	CIRCUIT DIAGRAM PANEL	SPARE CONTACTS 01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	S01	CIRCUIT DIAGRAM PANEL	CURR. TRANSF. 01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	S02	CIRCUIT DIAGRAM PANEL	CURR. TRANSF. 01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	S03	CIRCUIT DIAGRAM PANEL	CURR. TRANSF. 01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	T01	CIRCUIT DIAGRAM PANEL	VOLTAGE TRANSF. 01	
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50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	V02	CIRCUIT DIAGRAM PANEL	SPARE CONTACTS 01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	X01	CIRCUIT DIAGRAM PANEL	AX PE-BUS 01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	Z1A1	LIST OF EQUIPMENT PANEL		01
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50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	Z1K1	LIST OF EQUIPMENT PANEL		01
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50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01	Z1P1	LIST OF EQUIPMENT PANEL		01
Inhaltsverzeichnis					50.3023.01.A3.741.223	A =L01	/ 802
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ISS. BY:					INCORING	D009781.02.601-3.AHA	
ISS. FOR							
Orig.							
1	2	3	4	5	6	7	8
AS BUILT	06.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA			
Fact.-Rev.	08.11.2005 AD	Drawn	ADAM	50.3023.01			
Approval	20.09.2005 AD	Check	GROHMANN	SUBSTATION T80			
Alteration	Date	Name	Std.				

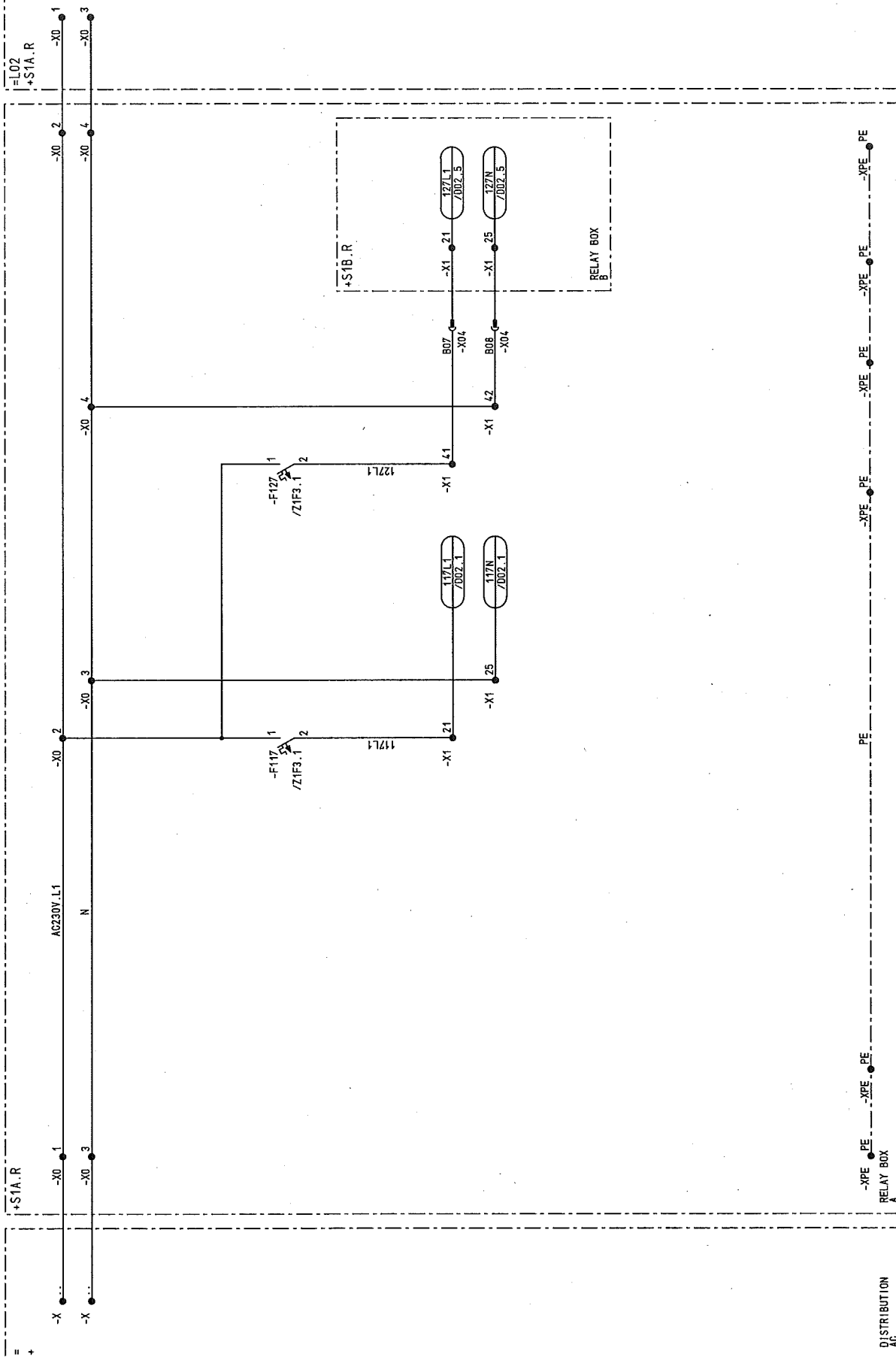
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CLIENT DOCUMENT NUMBER	RELEASE BY DOCUMENT NUMBER	VERSION STATUS	DOCUMENT IDENTIFICATION SORTI MATCHING	SHEET	DESIGN		
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01 Z1R1	63	LIST OF EQUIPMENT PANEL	01	A
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50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01 Z1Y1	67	LIST OF EQUIPMENT PANEL	01	
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50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01 Z2F1	71	LIST OF EQUIPMENT PANEL	01	
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50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01 Z2T1	74	LIST OF EQUIPMENT PANEL	01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01 Z2Y1	75	LIST OF EQUIPMENT PANEL	01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01 Z3Q1	76	LIST OF EQUIPMENT PANEL	01	C
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01 Z3Q2	77	LIST OF EQUIPMENT PANEL	01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01 Z3S1	78	LIST OF EQUIPMENT PANEL	01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	S =L01 Z3Y1	79	LIST OF EQUIPMENT PANEL	01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R K01	80	TERMINAL DIAGRAM PANEL	01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R K02	81	TERMINAL DIAGRAM PANEL	01	D
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R K10	82	TERMINAL DIAGRAM PANEL	01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R K11	83	TERMINAL DIAGRAM PANEL	01	
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R K12	84	TERMINAL DIAGRAM PANEL	01	
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50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R K40	87	TERMINAL DIAGRAM PANEL	01	
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50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R K80	93	TERMINAL DIAGRAM PANEL	01	F
50.3023.01.A3.741.223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R				
US STEEL KOSICE/SLOVAKIA				Inhalt Isverzeichniss			
AS BUILT	06.12.2005 AD	Date	06.06.2005	50.3023.01.A3.741.223			
Facit-Rev.	09.11.2005 AD	Drawn	ADAM	A =L01			
Approval	20.09.2005 AD	Checked	GROHMANN	Typ: 01			
Alteration		Date		Incoming			
Iss. for				D009781.02.601-3.AHA			
Orig.				8			
Iss. by:				01			
Iss. for				5			
Iss. by:				6			
Iss. for				7			
Iss. by:				8			

1	2	3	4	5	6	7	8
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50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R	K81	94	TERMINAL DIAGRAM PANEL	01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R	K82	95	TERMINAL DIAGRAM PANEL	01
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50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R	KPE	97	TERMINAL DIAGRAM PANEL	01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R	Q10	98	GROSS CONNECT. LIST PANEL	RELAY BOX 01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R	Q11	99	GROSS CONNECT. LIST PANEL	RELAY BOX 01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R	Q12	100	GROSS CONNECT. LIST PANEL	RELAY BOX 01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R	Q13	101	GROSS CONNECT. LIST PANEL	RELAY BOX 01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R	Q14	102	GROSS CONNECT. LIST PANEL	RELAY BOX 01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R	S01	103	PLUG DIAGRAM PANEL	CIRCUIT-BREAKER 01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R	S40	104	PLUG DIAGRAM PANEL	NIEDERSP6.-SCHR. A- NIEDERSP6.-SCHR. B 01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R	S41	105	PLUG DIAGRAM PANEL	NIEDERSP6.-SCHR. A- NIEDERSP6.-SCHR. B 01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.R	S101	106	PLUG DIAGRAM PANEL	FAN 01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.T	Q15	107	GROSS CONNECT. LIST PANEL	RELAY BOX 01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1A.T	Q16	108	GROSS CONNECT. LIST PANEL	RELAY BOX 01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1B.R	K01	109	TERMINAL DIAGRAM PANEL	01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1B.R	K10	110	TERMINAL DIAGRAM PANEL	01
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50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1B.R	S01	122	PLUG DIAGRAM PANEL	CIRCUIT-BREAKER 01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S1B.R	S101	123	PLUG DIAGRAM PANEL	FAN 01
50.3023.01.A3.741 .223	D009781.02.601-3.AHA	01 02 03	V =L01 +S2A	Q20	124	GROSS CONNECT. LIST PANEL	PANEL 01
US STEEL KOSICE/SLOVAKIA				Inhalt Isverzeichnis			
AS BUILT	06.12.2006 AD	Date	06.06.2005	50.3023.01.A3.741.223			
Fact.-Rev.	09.11.2005 AD	Drawn	ADAM	A =L01			
Approval	20.09.2005 AD	Checked	GROHMANN	Typ: 01			
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Orig.:				D009781.02.601-3.AHA			
Iss. for				7			
Iss. by:				6			
2				5			
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CLIENT DOCUMENT NUMBER		RELEASE BY DOCUMENT NUMBER		VERSION STATUS		DOCUMENT IDENTIFICATION		SHEET		DESIGN					
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50.3023.01.A3.741.223		D009781.02.601-3.AHA	01	02	03	V	=L01 +S3A	S01	134	PLUG DIAGRAM	CIRCUIT-BREAKER				
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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	CIRCUIT DIAGRAM		S = L01	/ D01
02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01		AC-DISTRIBUTION			
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80		PANEL			
NO.	Alteration	Date	Name	Std.		Orig:		Type: 01 INCOMING			
							Iss. by:	D009781.02.601-3. AHA			135Sh.

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03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	S=L01	135Sh
02	Fact.-Rev.	09.11.2005 AD	Drawn	ADAM	50.3023.01	AC-DISTRIBUTION		Sheet9
01	Approval	20.06.2005 AD	Check	GROHMANN	SUBSTATION T80	01		
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:		
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CIRCUIT DIAGRAM
AC-DISTRIBUTION
PANEL

Typ: 01
INCOMING

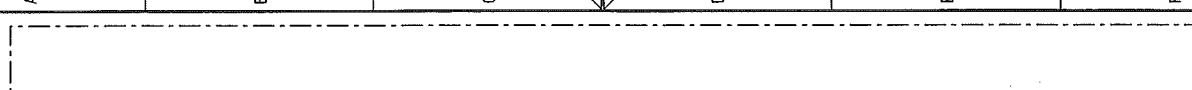
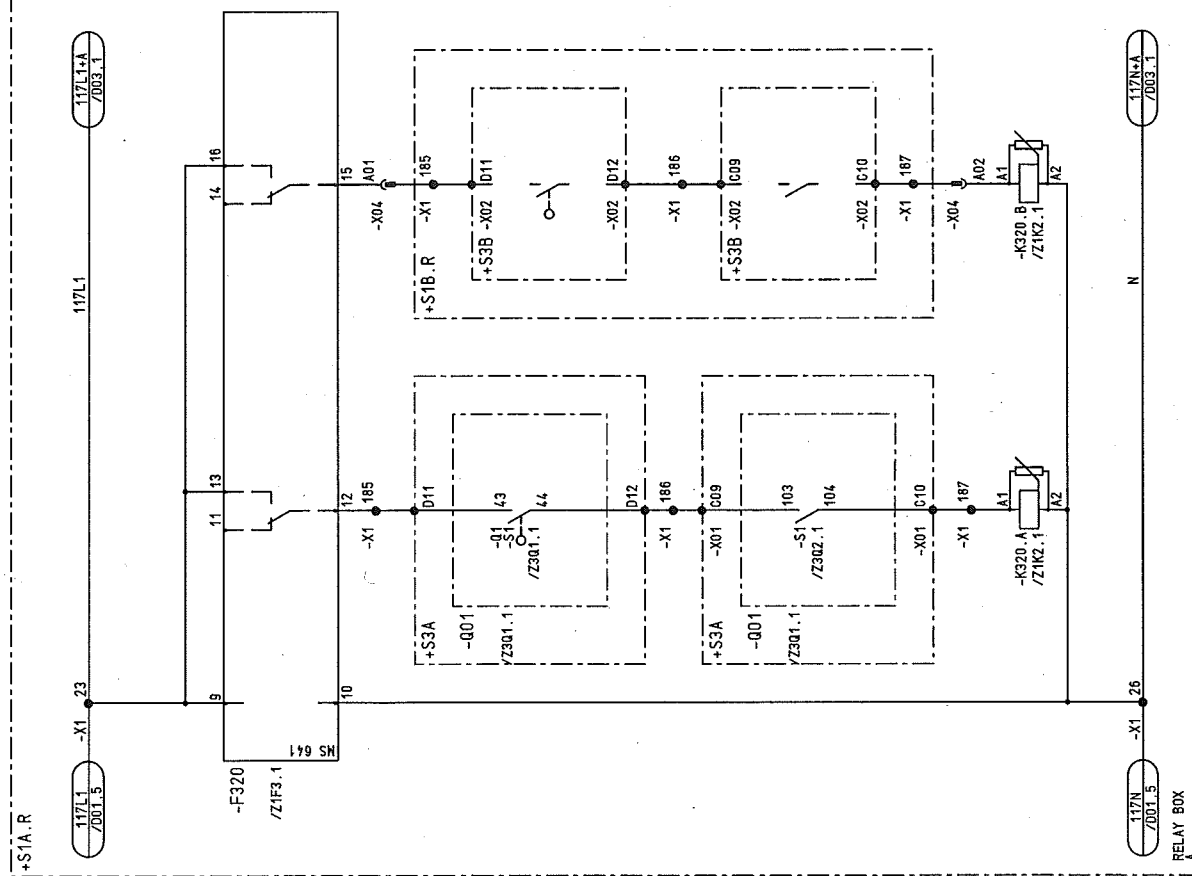
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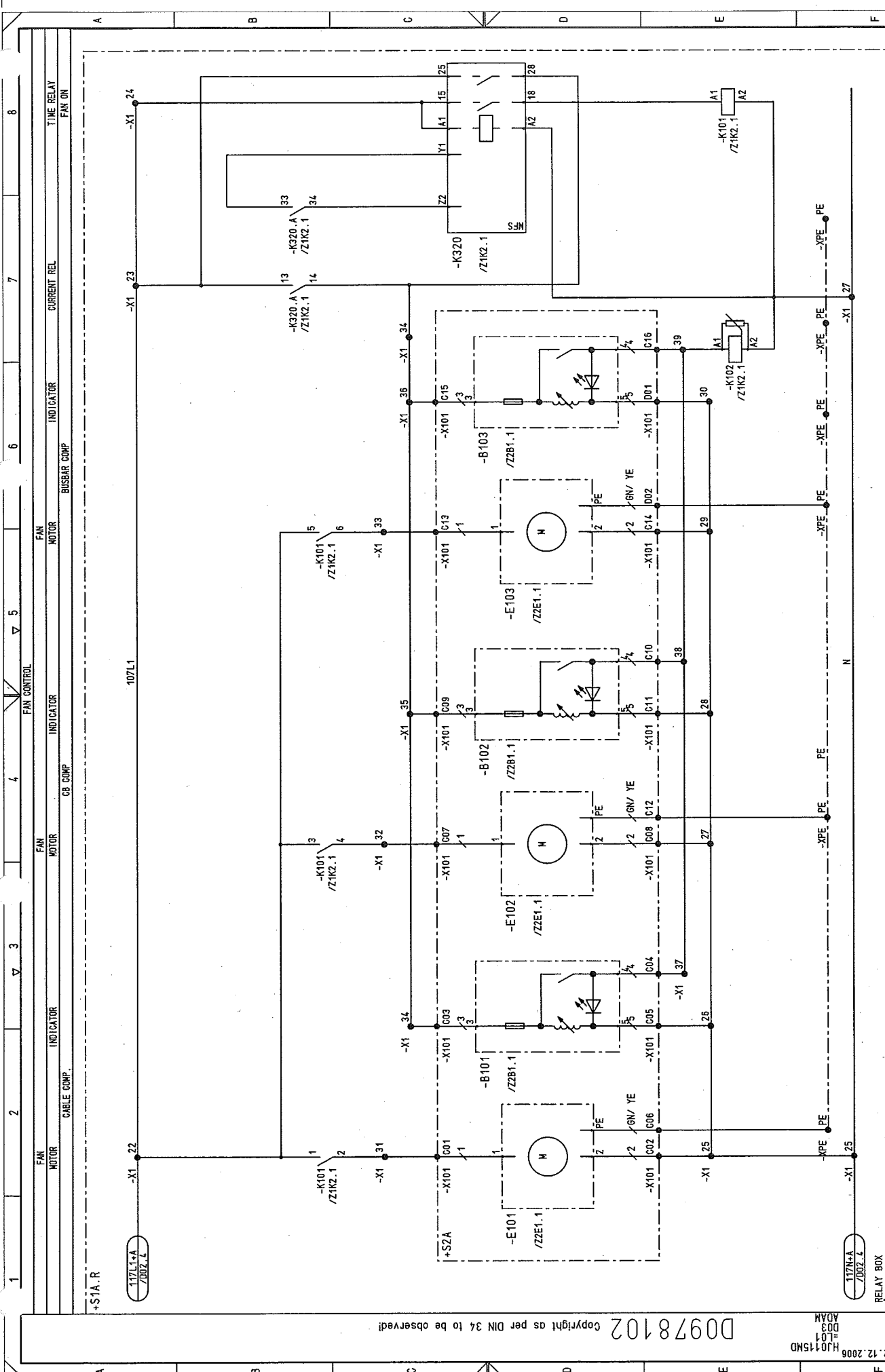
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Sheet9

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CABLE COMP.	CABLE COMP.	CABLE COMP.	CABLE COMP.	CABLE COMP.	CABLE COMP.	CABLE COMP.	CABLE COMP.
INDICATOR	INDICATOR	INDICATOR	INDICATOR	INDICATOR	INDICATOR	INDICATOR	INDICATOR
CB COMP.	CB COMP.	CB COMP.	CB COMP.	CB COMP.	CB COMP.	CB COMP.	CB COMP.
INDICATOR	INDICATOR	INDICATOR	INDICATOR	INDICATOR	INDICATOR	INDICATOR	INDICATOR
BUSBAR COMP.	BUSBAR COMP.	BUSBAR COMP.	BUSBAR COMP.	BUSBAR COMP.	BUSBAR COMP.	BUSBAR COMP.	BUSBAR COMP.
CURRENT REL.	CURRENT REL.	CURRENT REL.	CURRENT REL.	CURRENT REL.	CURRENT REL.	CURRENT REL.	CURRENT REL.
TIME RELAY	TIME RELAY	TIME RELAY	TIME RELAY	TIME RELAY	TIME RELAY	TIME RELAY	TIME RELAY
FAN ON	FAN ON	FAN ON	FAN ON	FAN ON	FAN ON	FAN ON	FAN ON

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01	Approval	20.09.2005	AD	Check	GROHMANN	Orig.			135SL
NO.	Alteration	Date	Name	Std.					

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003	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA
002	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
001	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80
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CIRCUIT DIAGRAM
FAN B
PANEL

50.3023.01.A3.741.223

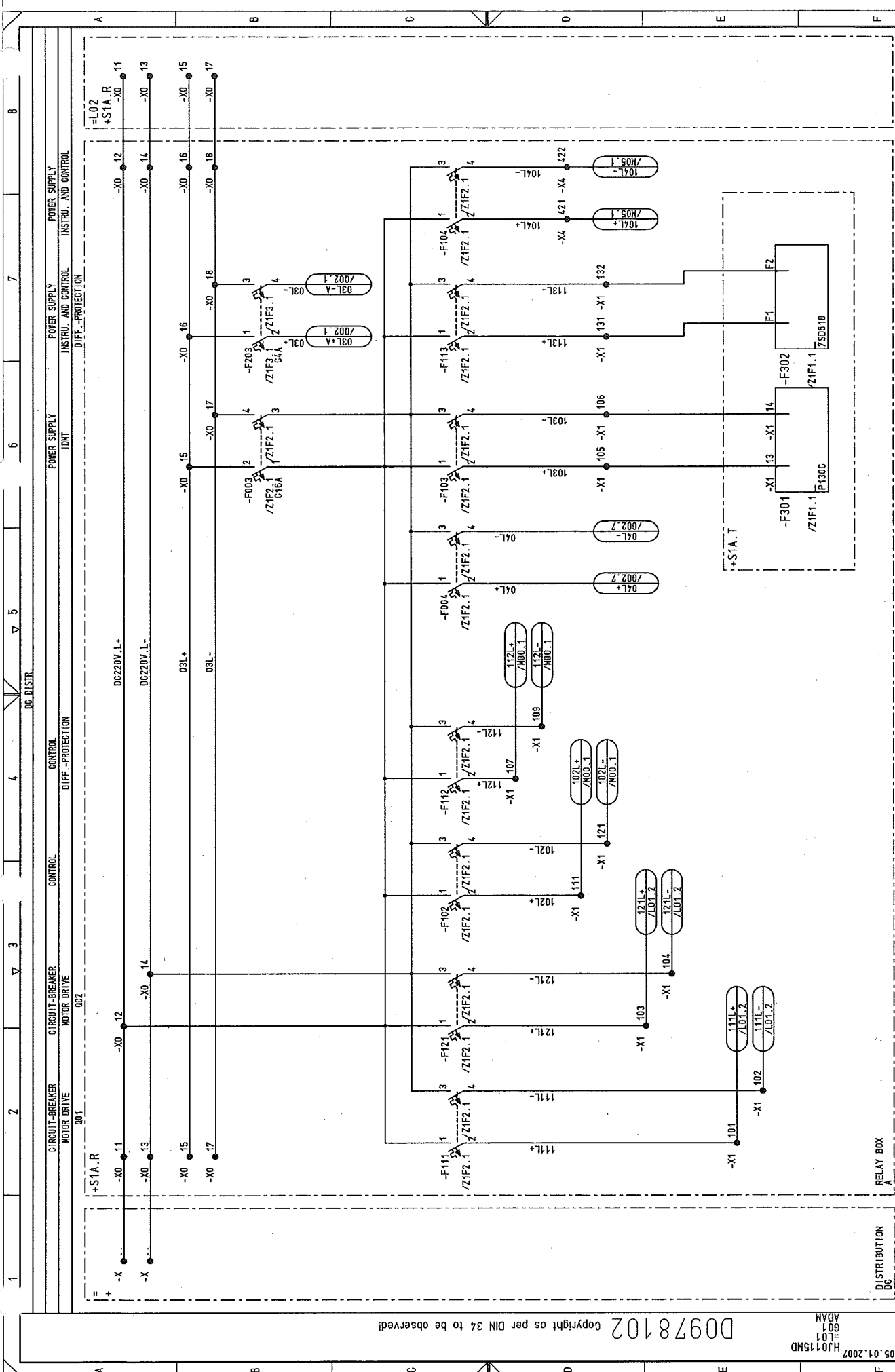
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Sheet 11
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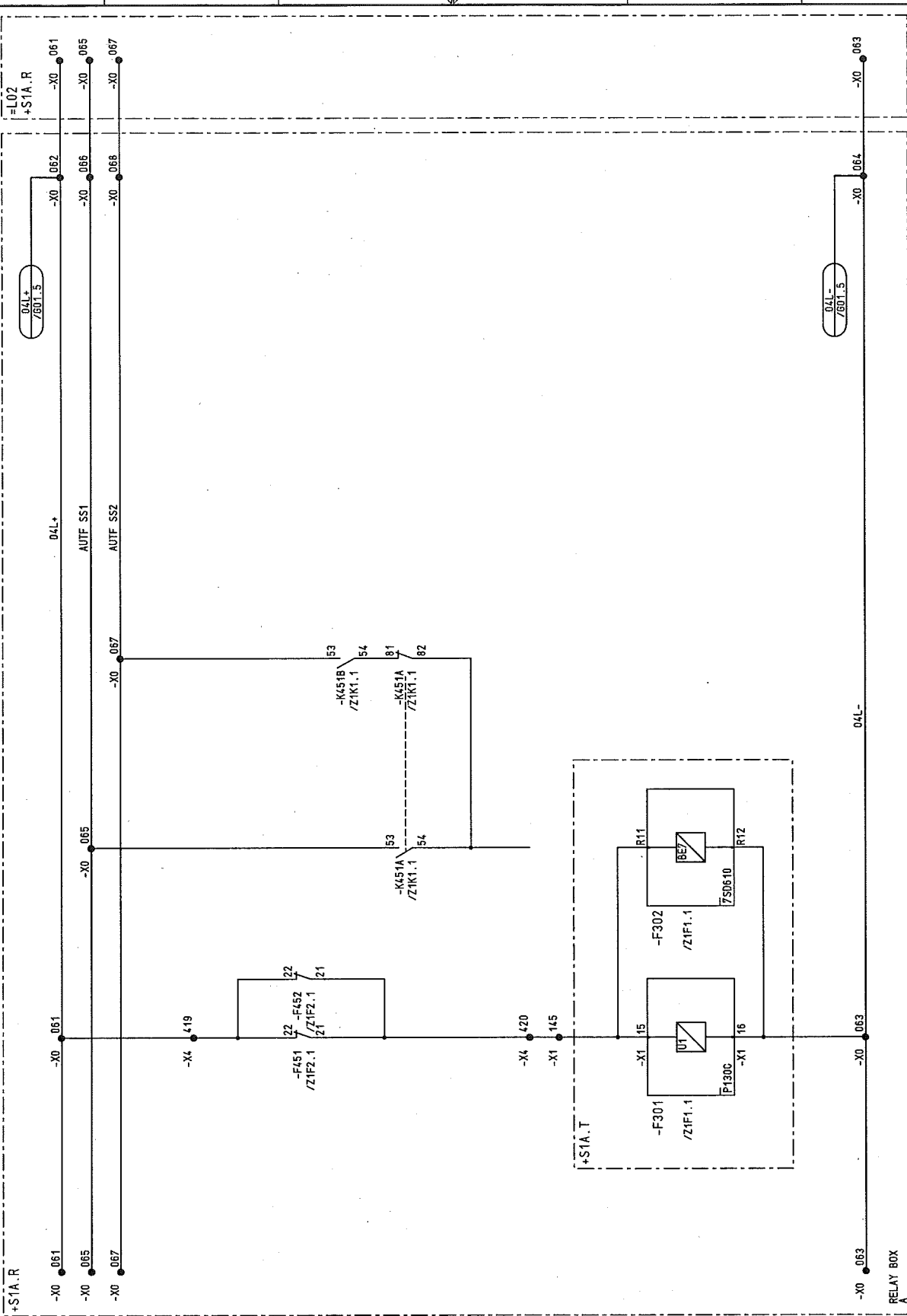
D0978102 Copyright as per DIN 34 to be observed!

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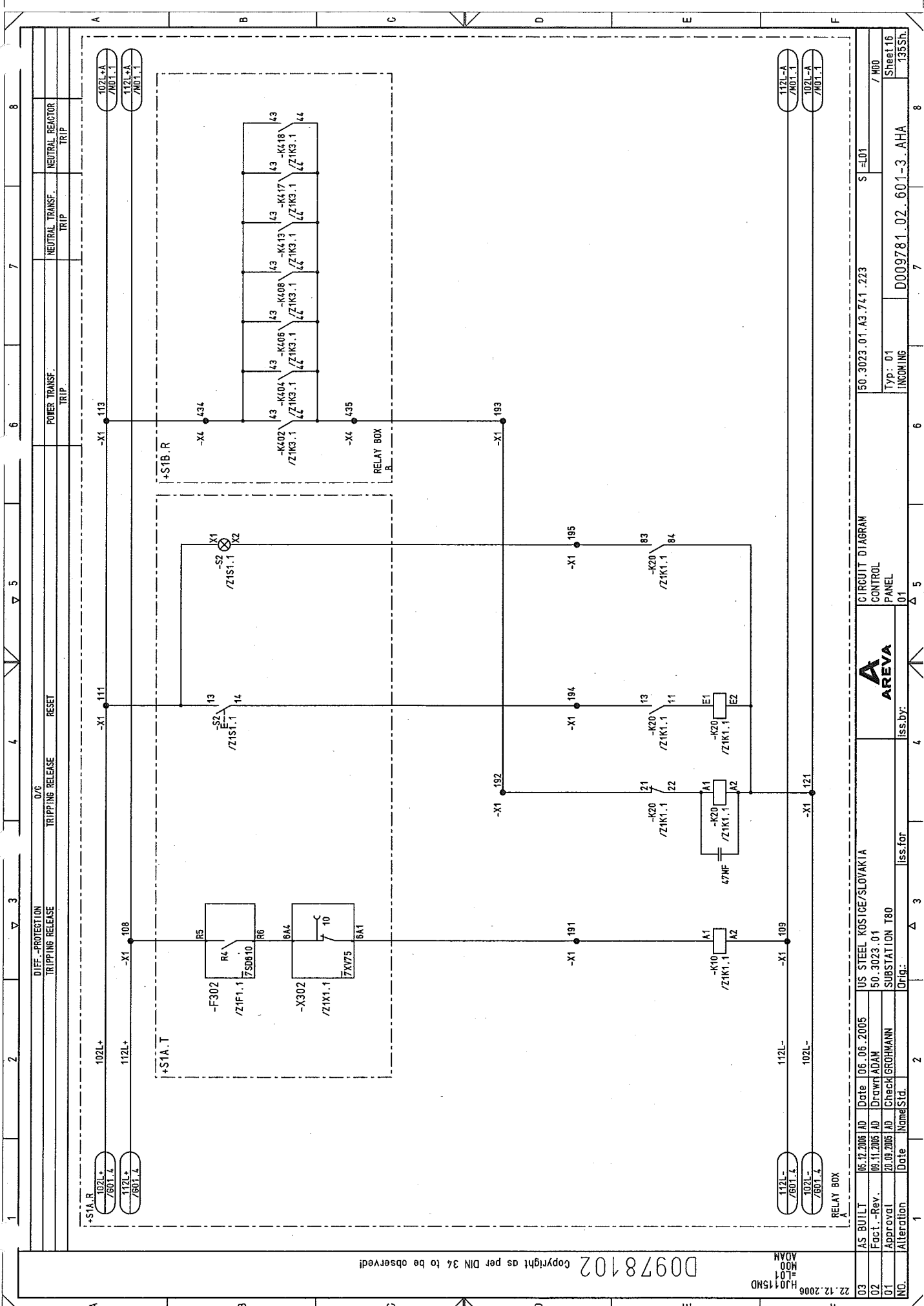
D0978102 Copyright as per DIN 34 to be observed!

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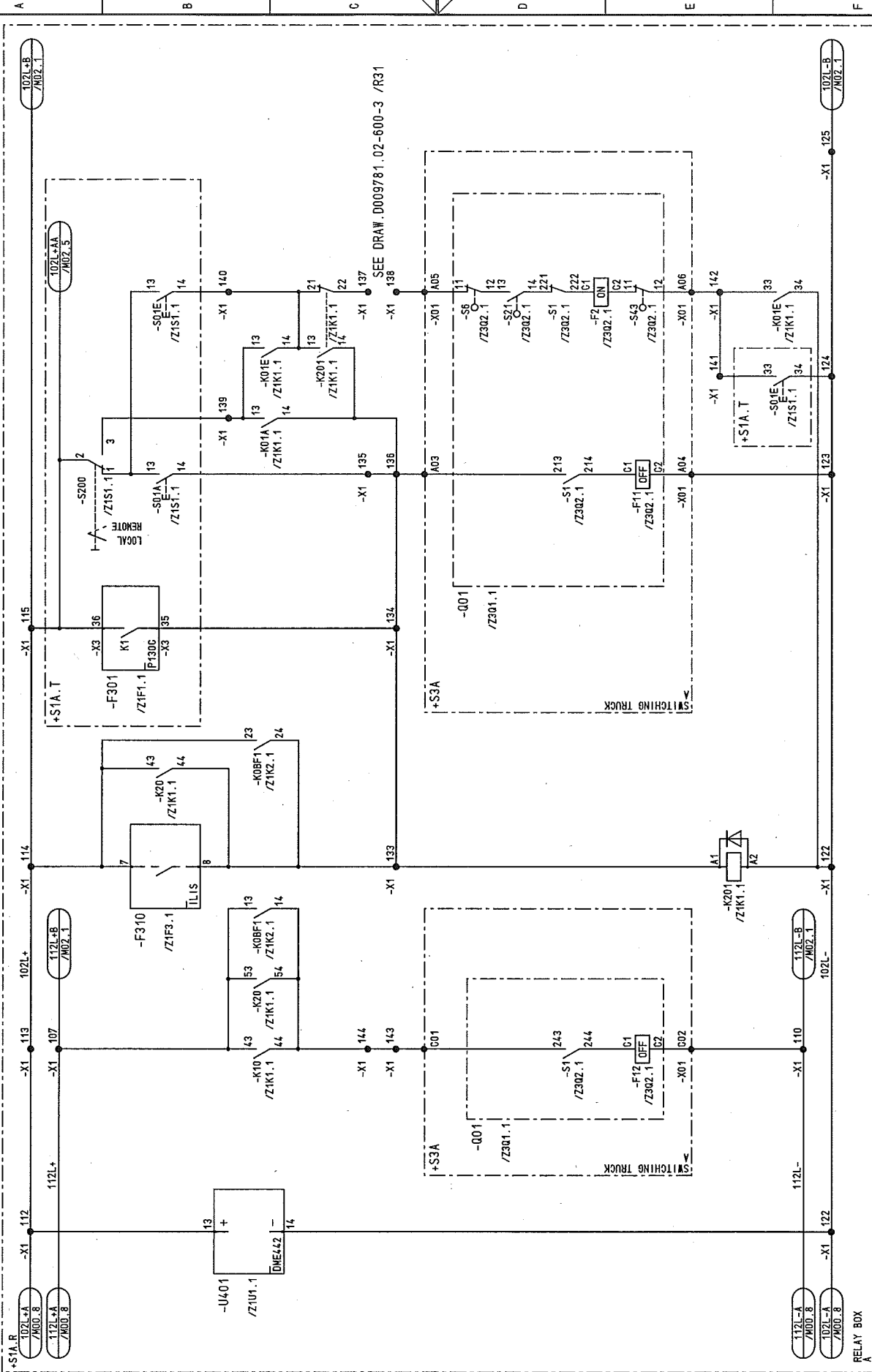
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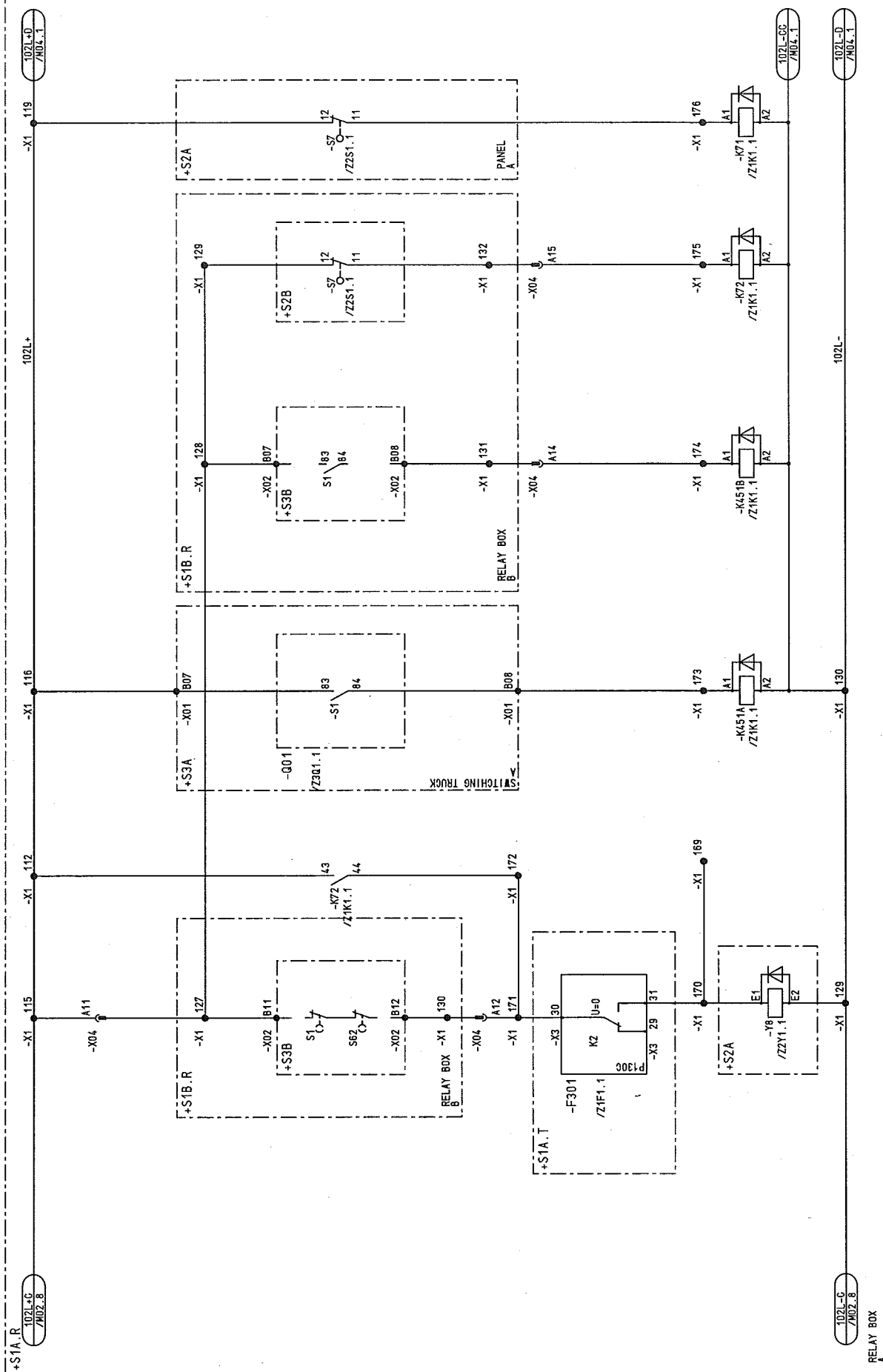
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01	Approval	20.09.2005 AD	Checked	GROHMANN	SUBSTATION T80	PANEL	Typ: 01 INCOMING	Sheet 15 135 Sh.
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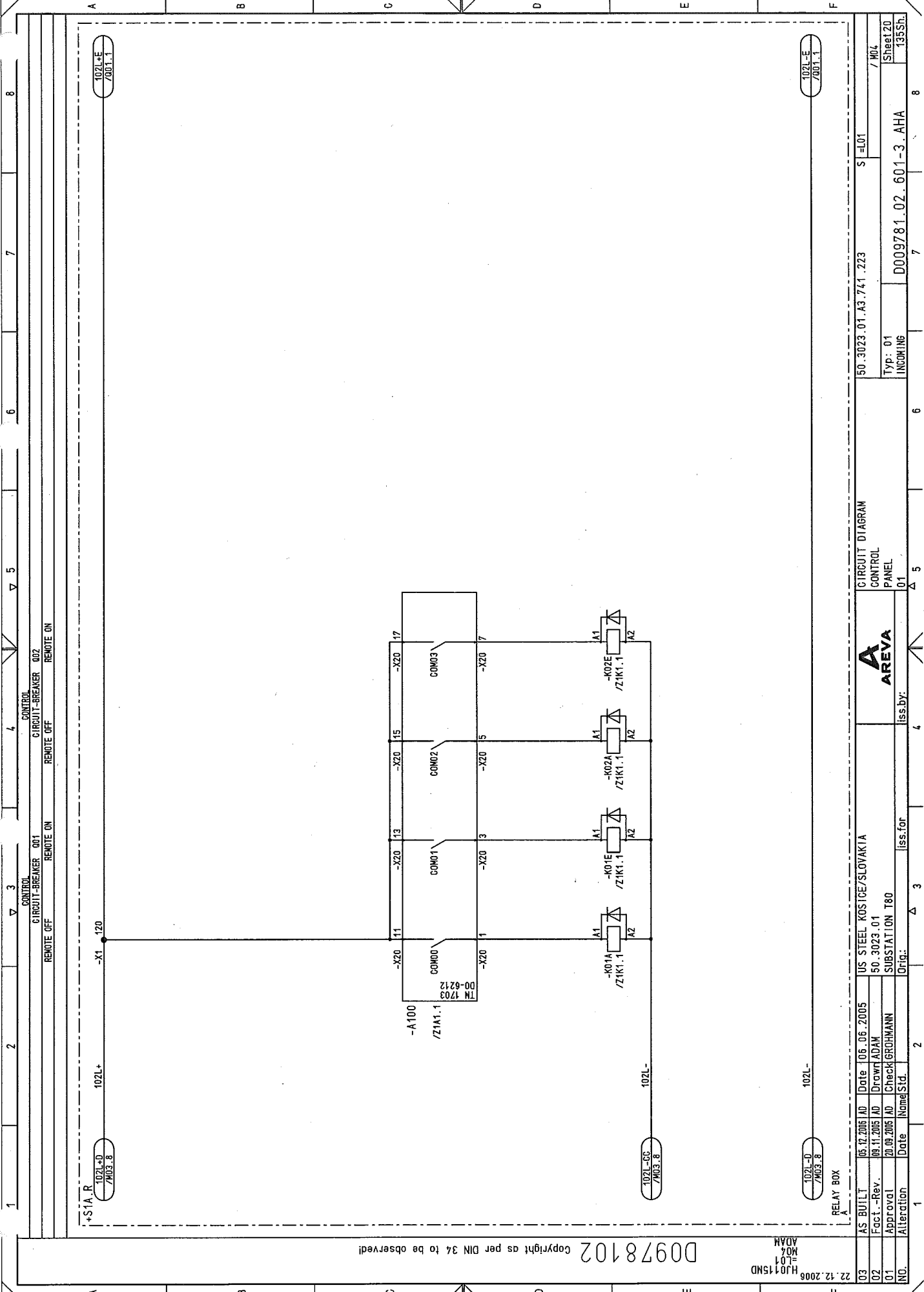


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03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	 AREVA	CIRCUIT DIAGRAM				50.3023.01.A3.74.1.223		S=L01			
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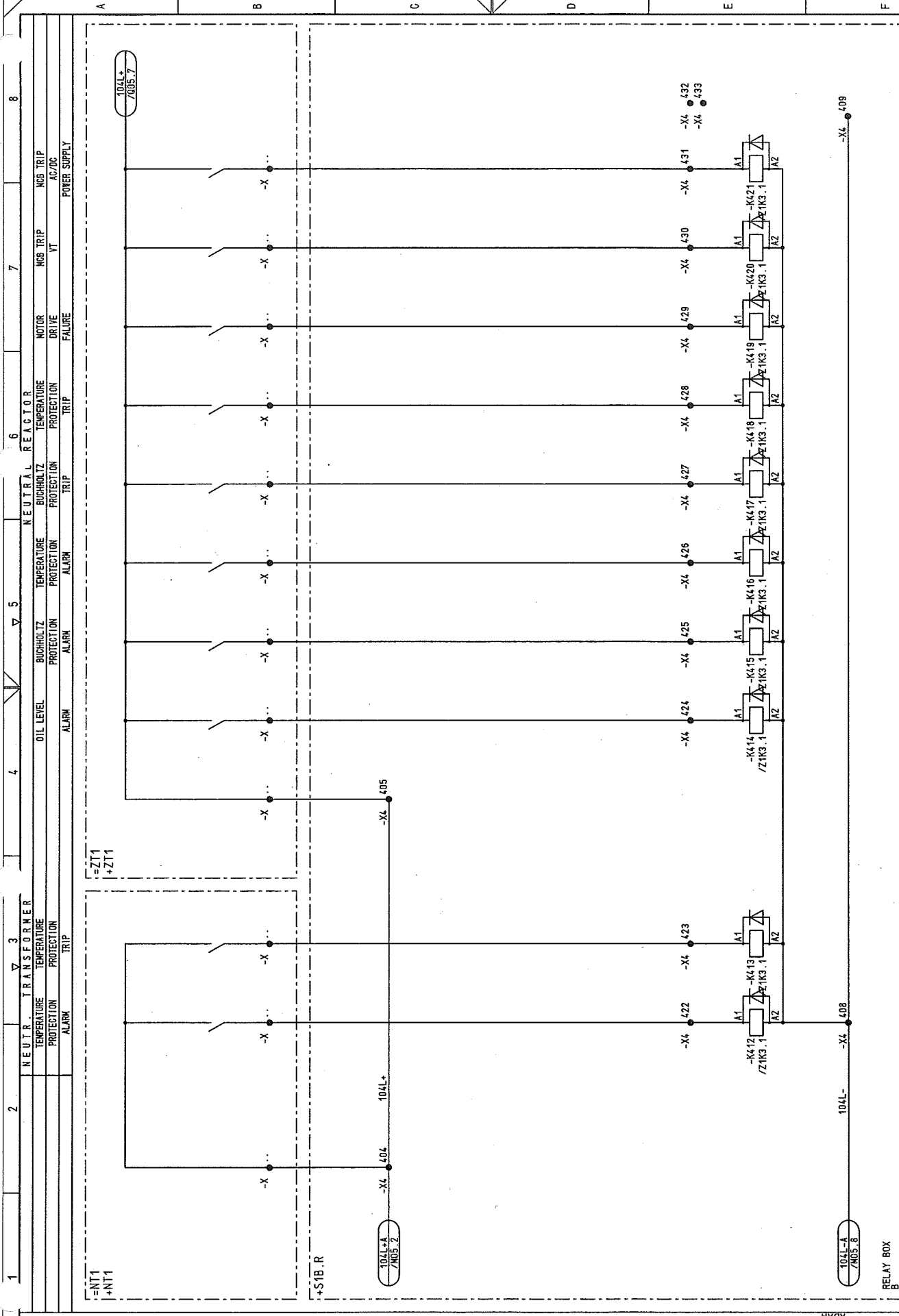
Copyright as per DIN 34 to be observed!

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 01 Approval 20.09.2005 AD Check GROHMANN
 NO. Alteration Date Name Std.

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02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:

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PROTECTION		PROTECTION		PROTECTION		PROTECTION		PROTECTION		PROTECTION		PROTECTION		PROTECTION	
ALARM		ALARM		ALARM		ALARM		ALARM		ALARM		ALARM		ALARM	
TRIP		TRIP		TRIP		TRIP		TRIP		TRIP		TRIP		TRIP	
AC/DC		AC/DC		AC/DC		AC/DC		AC/DC		AC/DC		AC/DC		AC/DC	
POWER SUPPLY		POWER SUPPLY		POWER SUPPLY		POWER SUPPLY		POWER SUPPLY		POWER SUPPLY		POWER SUPPLY		POWER SUPPLY	

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POWER SUPPLY
ARC DETECTOR

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NO.	Altération	Date	Nom/Std.	Check	GROHMANN	T80	Substitution	Qrq.	Iss.
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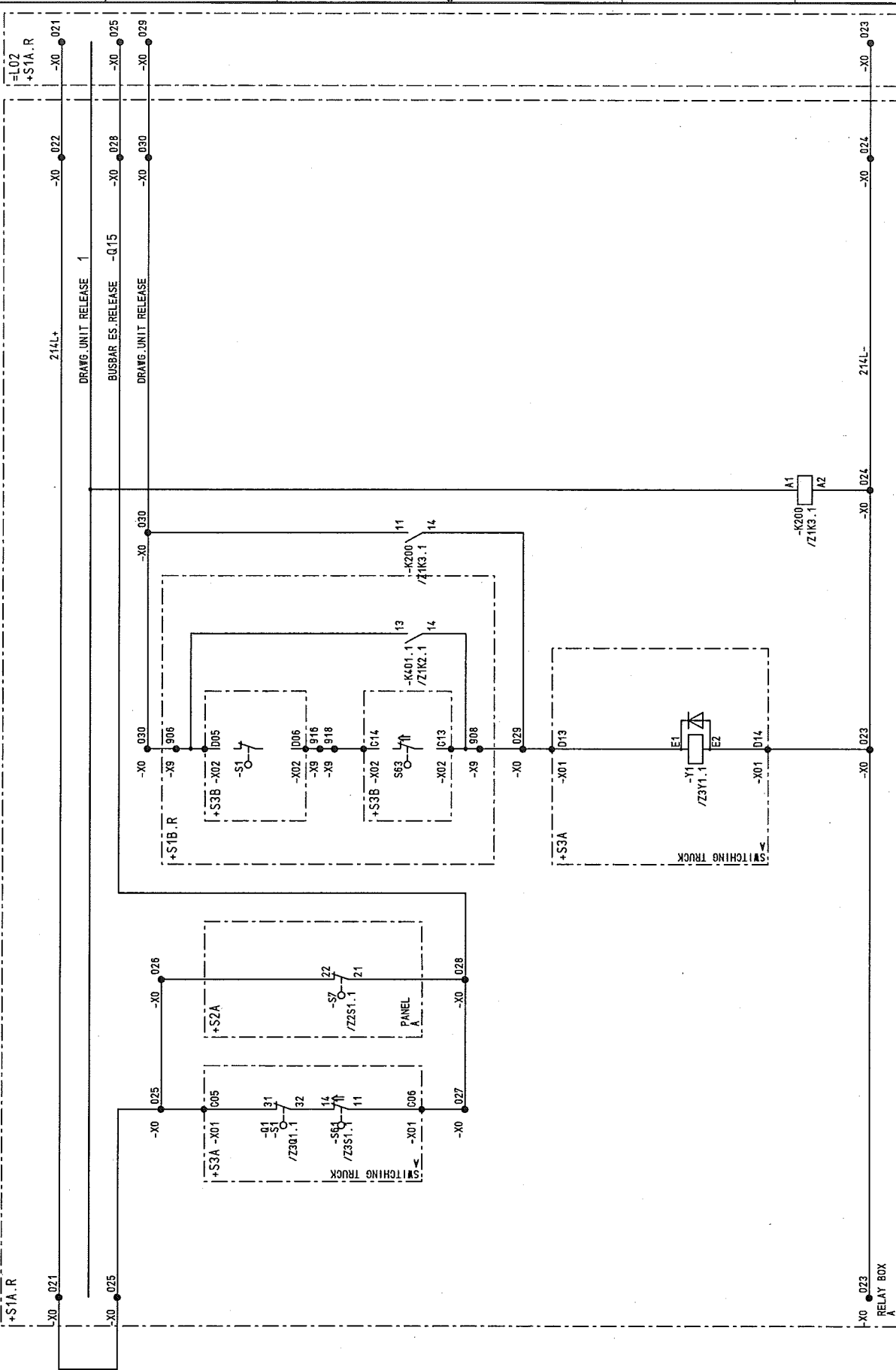
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INCOWING	135Sh.	

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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.223	S	L01	/ P01
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01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL				135Sh
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:		D009781.02.601-3.AHA	Typ: 01	INCOMING	



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PULLED

DRAWG UNIT RELEASE -X01

TEST. PDS.

102

S1A.R

-X0 021

-X0 022

214L+

DRAWG. UNIT RELEASE 1

BUSBAR ES RELEASE -Q15

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-X0 025

DRAWG. UNIT RELEASE

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1 2 3 4 5 6 7 8

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TEST. PDS.

102

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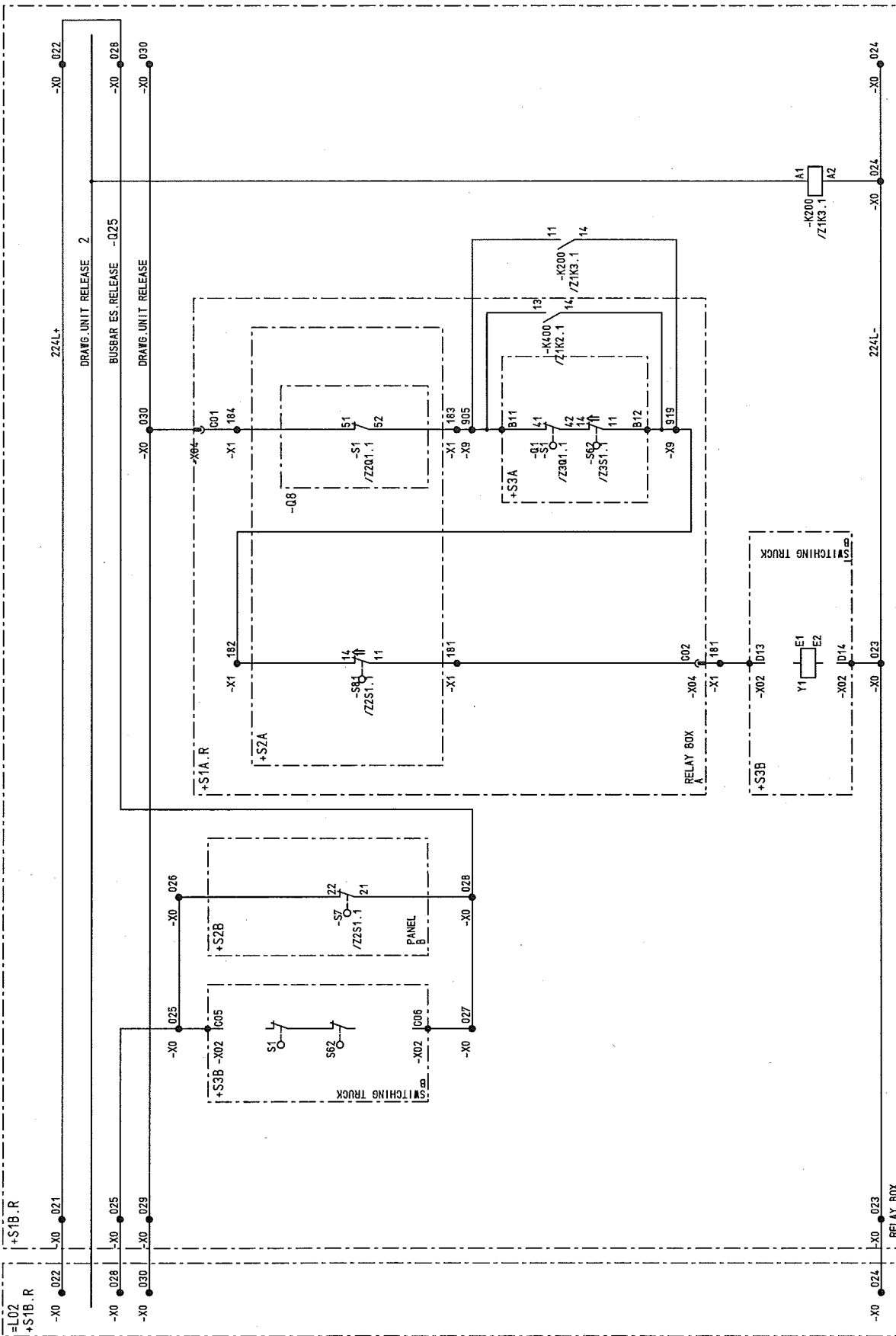
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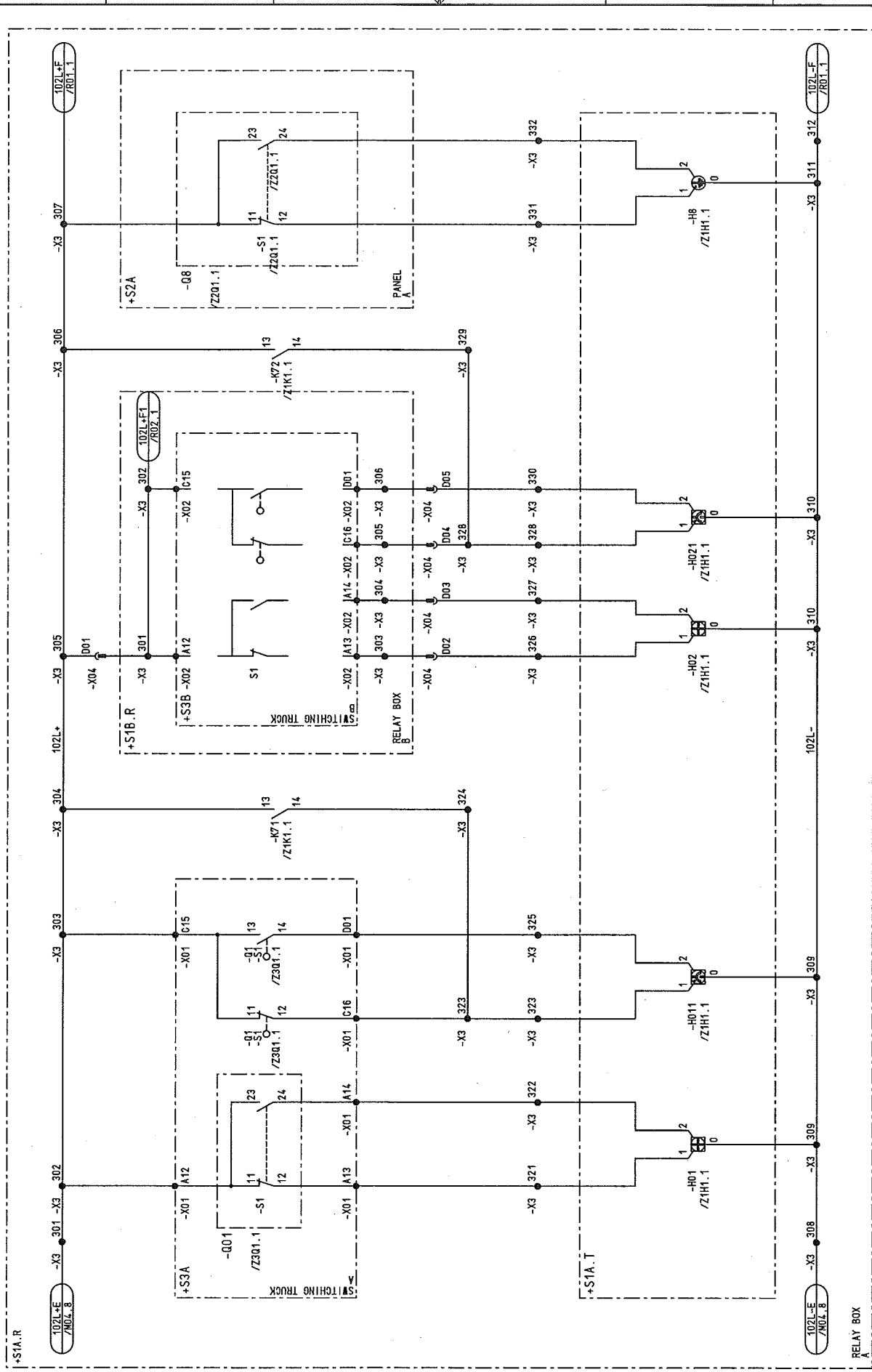


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22.12.2008

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01	Approval	20.09.2005 AD	Date	Checked	GROHMANN	PANEL			135Sh.
NO.		Alteration	Date	Name	Std.	Iss.by:	Iss.for	Typ: 01	D009781.02.601-3.AHA
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RELAY BOX

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POSITION INDICA.

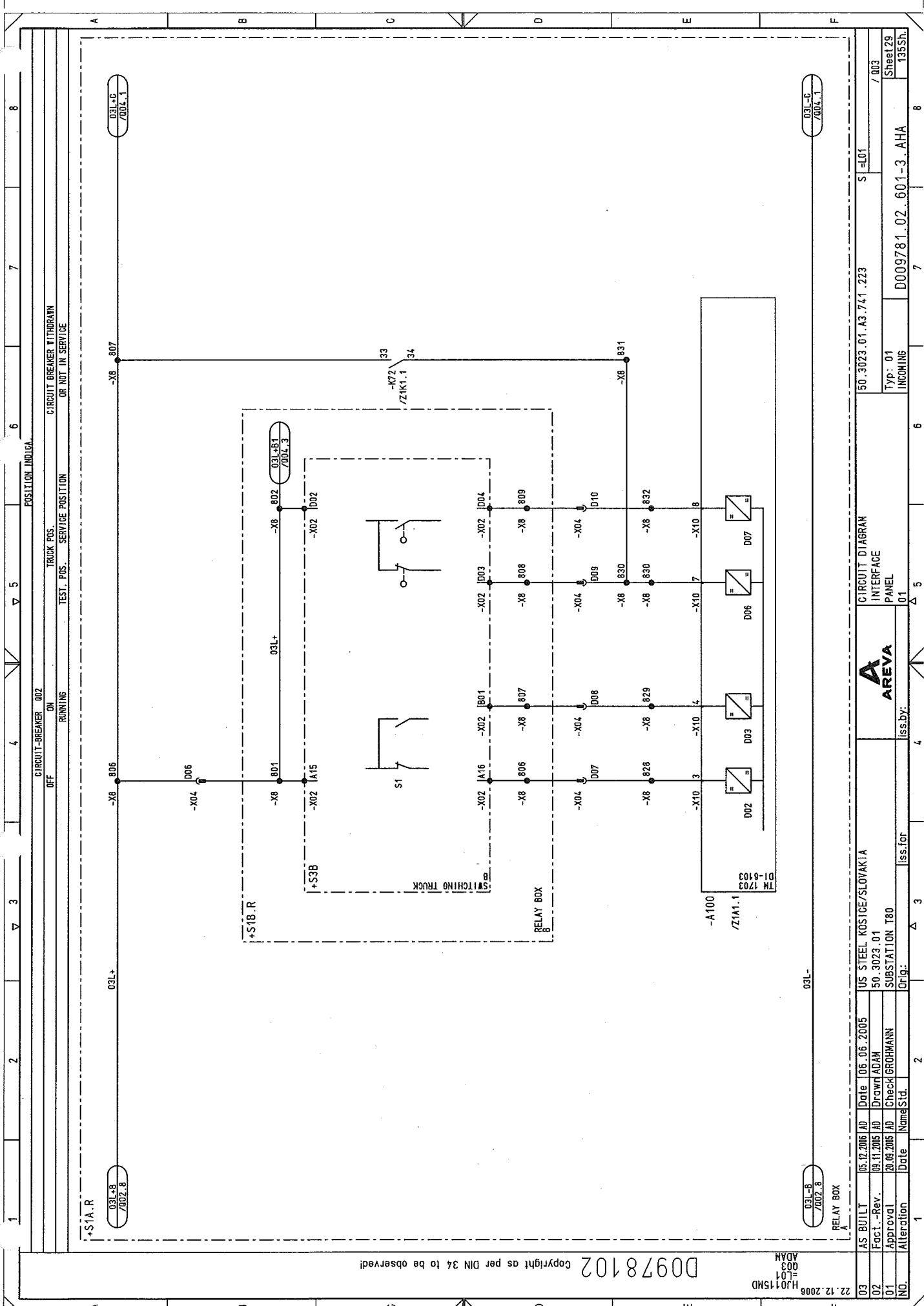
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Sheet 27

135Sh.



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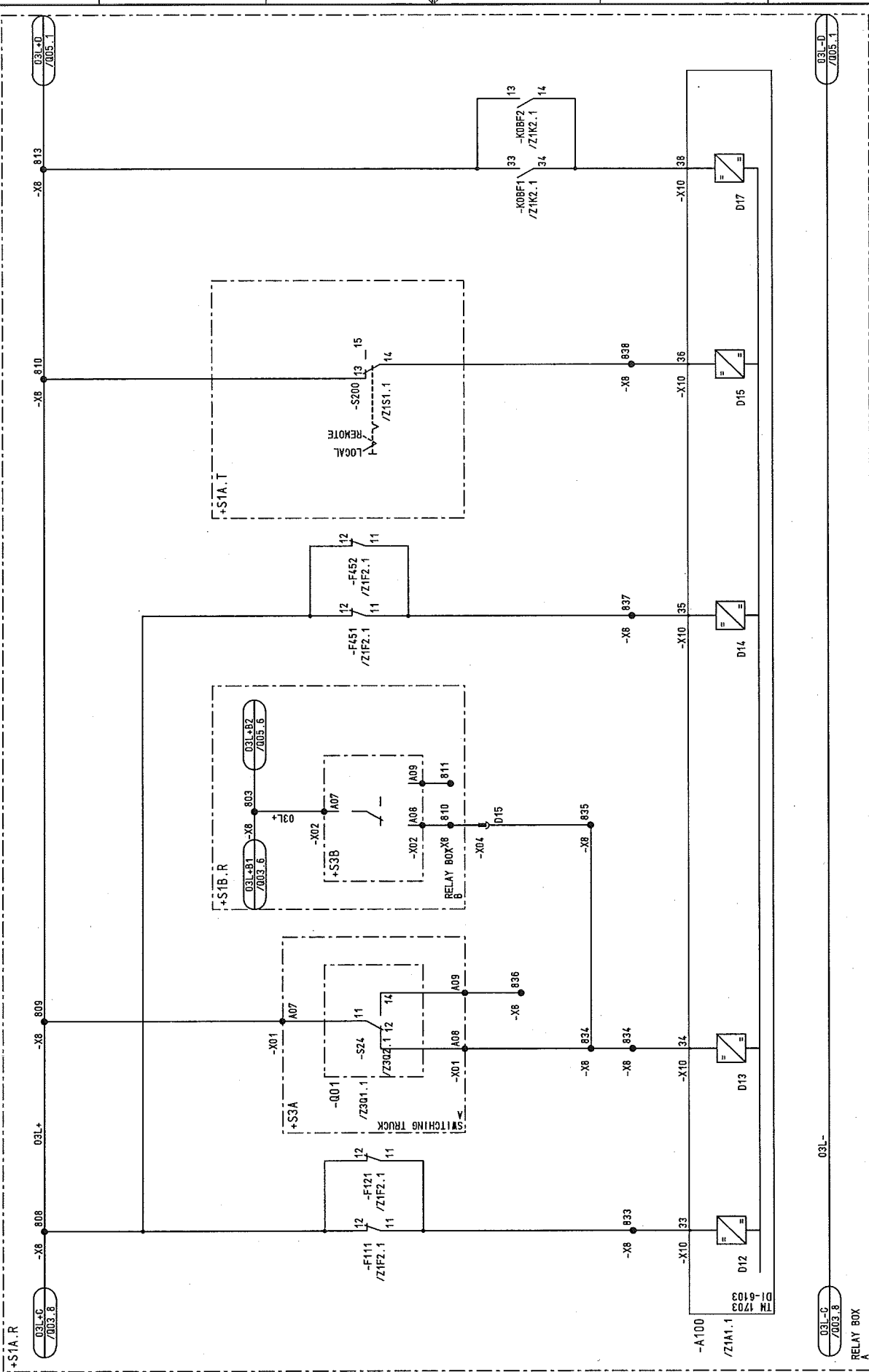
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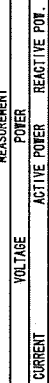
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OFF				TRUCK POS.			
ON				TEST. POS.			
RUNNING				SERVICE POSITION			
OR NOT IN SERVICE							
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02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	
01	Approval	20.06.2005	AD	Check	GROHMANN	SUBSTATION T80	
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				CIRCUIT DIAGRAM			
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				D009781.02.601-3.AHA			
				Sheet 29			
				135Sh			

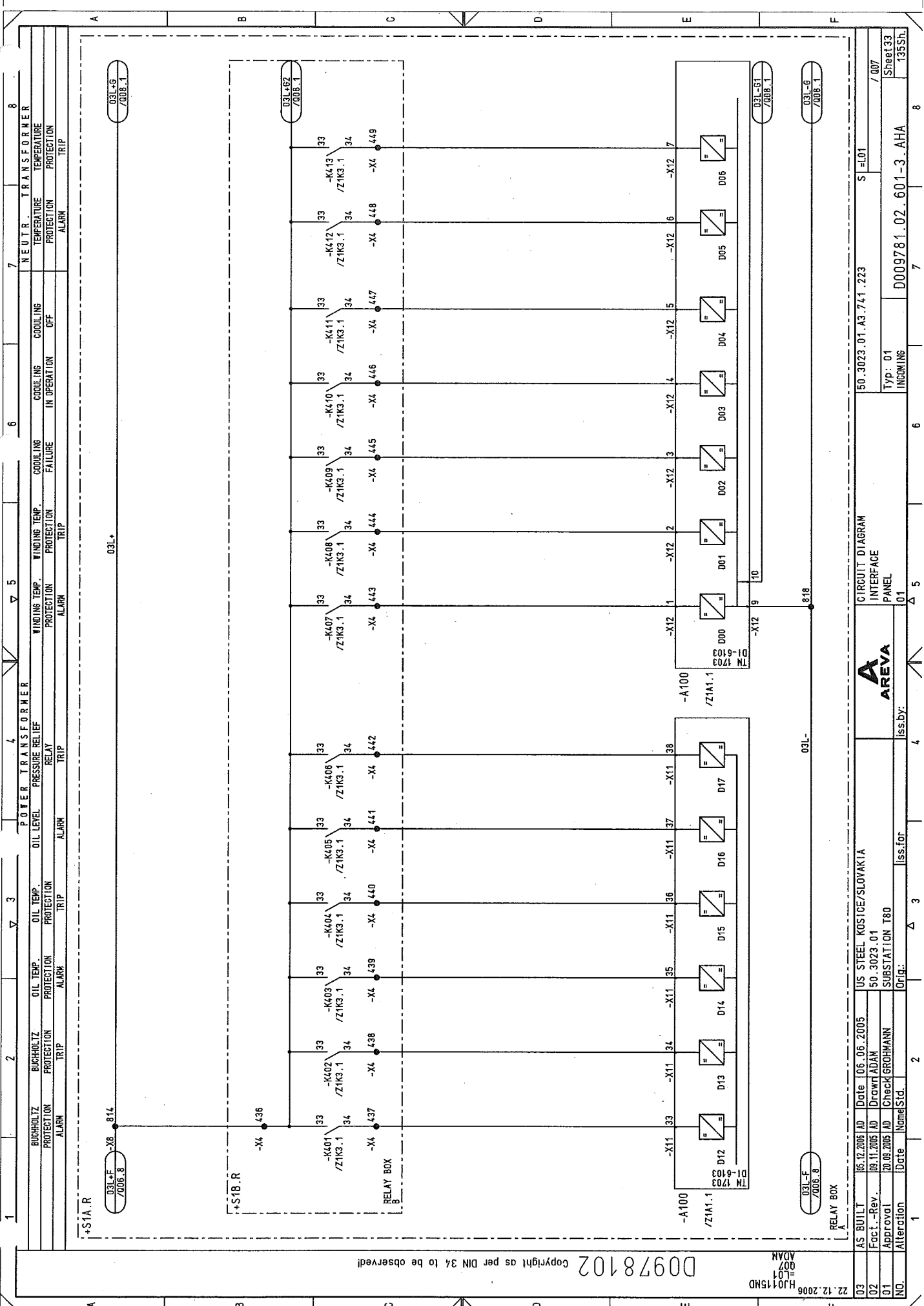
Copyright as per DIN 34 to be observed!

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ADAM
001

03	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.223	S	=L01	/004
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01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL				
NO.	Alteration	Date	Name	Std.	Iss. by:	Iss. for	01	INCOMING	D009781.02.601-3.AHA	Sheet 30	135Sh.



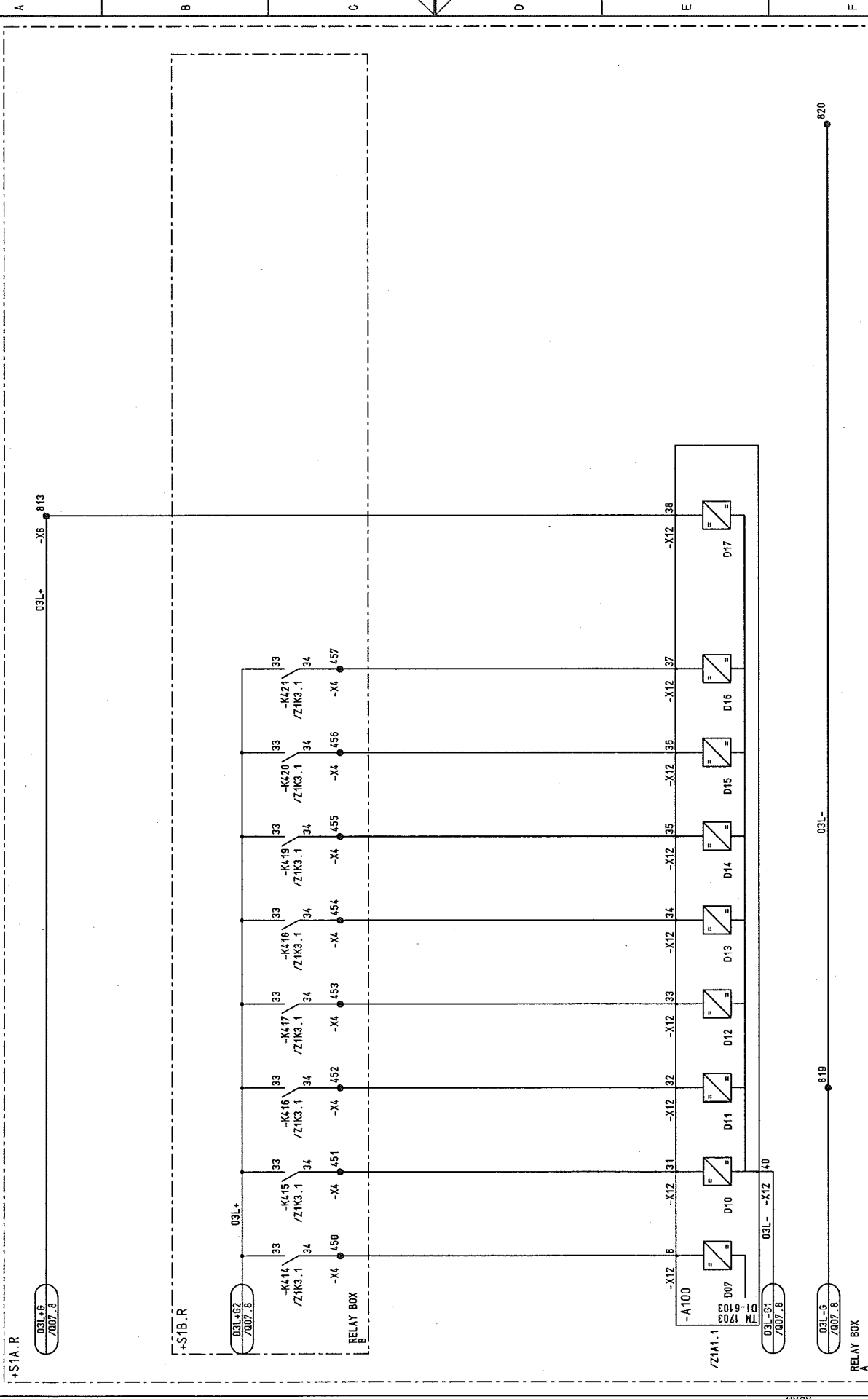




D0978102 Copyright as per DIN 34 to be observed!

HJ015MD
L01
ADAN

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.223	S-L01	/ 007
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	INTERFACE			Sheet 133
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			135Sh
NO.	Alteration	Date	Name	Iss.	for	Iss.	by:	01	D009781.02.601-3.AHA	



NO.		Alteration	Date	Name	Std.	Iss. for	Iss. by:	CIRCUIT DIAGRAM		INTERFACE		PANEL		Sheet 34		135Sh	
03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		50.3023.01.A3.741.223		S-L01		/ 008		D009781.02.601-3.AHA		8	
02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01		Typ: 01		INCOMING		7		8			
01	Approval	20.06.2005	AD	Check	GROHMANN	SUBSTATION T80		01		01		5		6			
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D0978102 Copyright as per DIN 34 to be observed!

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H0115ND
008
ADAM

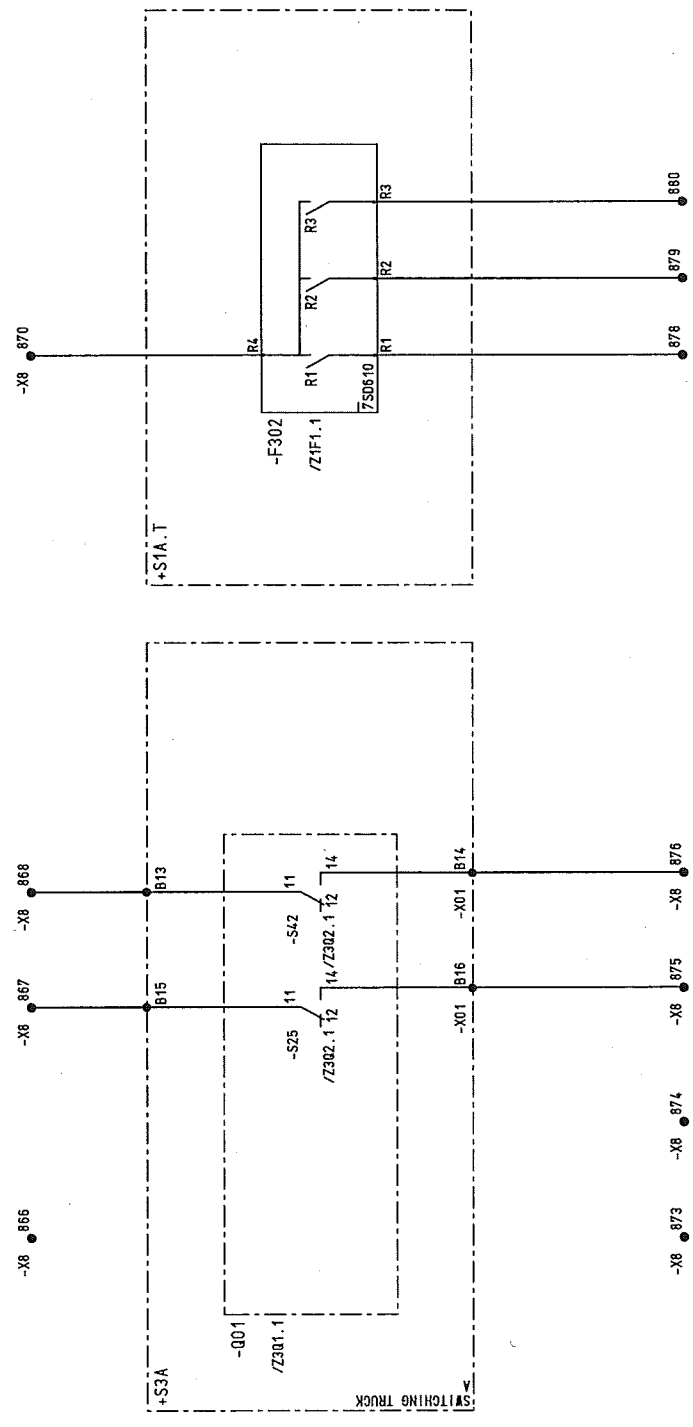
POSITION INDICA.

SPRINGS CHARGED ON/OFF

Free OUTPUT

+S1A.R

+S1A.T



D0978102 Copyright as per DIN 34 to be observed!

22.12.2006
HJ0115MD
009
ADAM

RELAY BOX

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02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Iss. for	Orig.
1						

CIRCUIT DIAGRAM
SPARE CONTACTS
PANEL



Iss. by:

50.3023.01.A3.741.223

S=L01

Typ: 01
INCOMING
D009781.02.601-3.AHA

/ 009

Sheet 35
1355h

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POSITION INDICA.

SPARE CONTACTS
002

SPRING CHARGED
ACTUATION
ON/OFF

+S1B.R

-X8 816 -X8 817

+S3B

S25 S42

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-X8 819

-X8 821 -X8 822

SWITCHING TRUCK

RELAY BOX

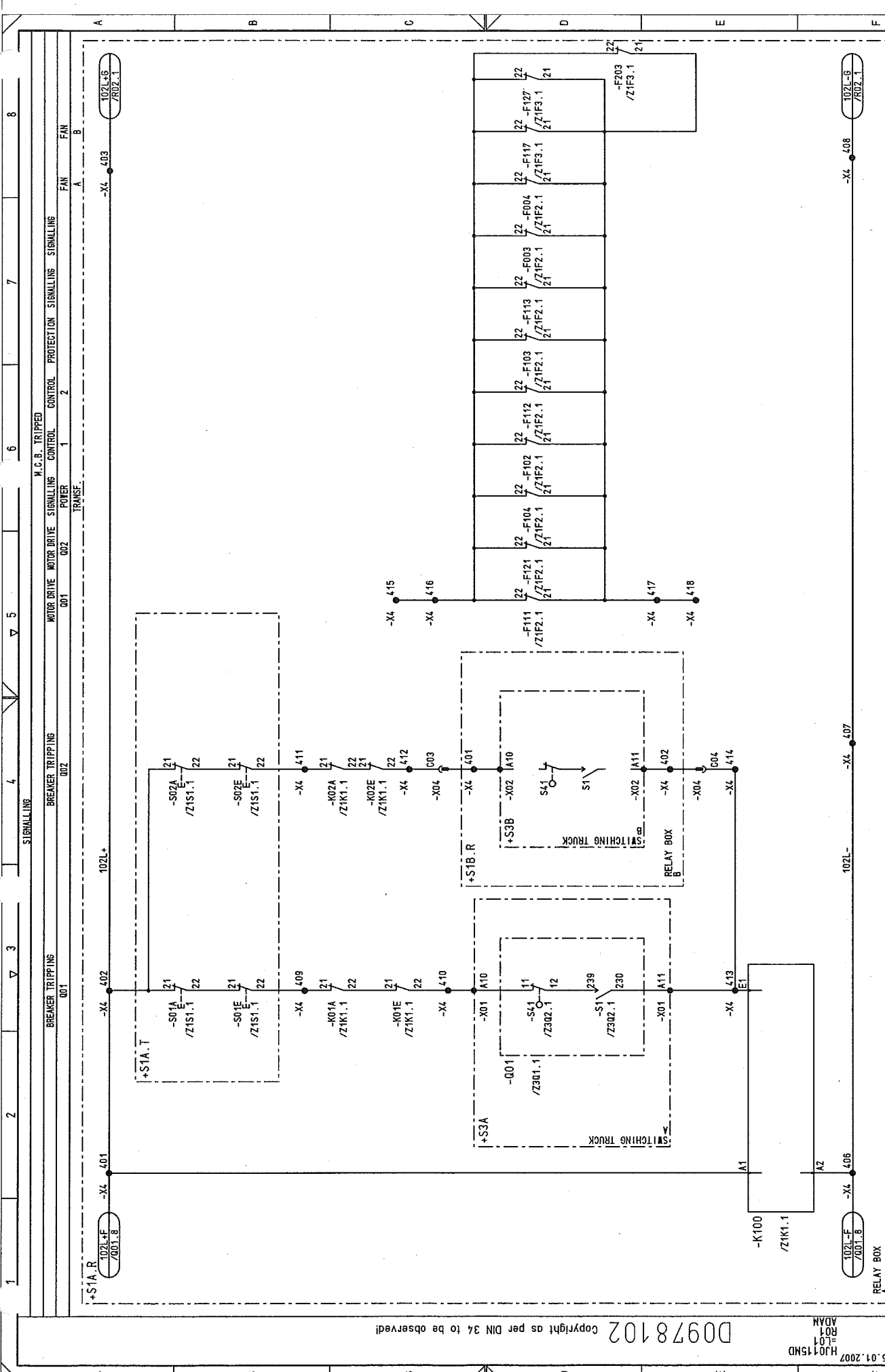
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01	Approval	20.03.2005 AD	Checked	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Orig.

CIRCUIT DIAGRAM
SPARE CONTACTS
PANEL
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50.3023.01.A3.741.223
S=L01
Typ: 01
INCOMING
D009781.02.601-3.AHA
Sheet 36
135Sh

D0978102 Copyright as per DIN 34 to be observed!

22.12.2006
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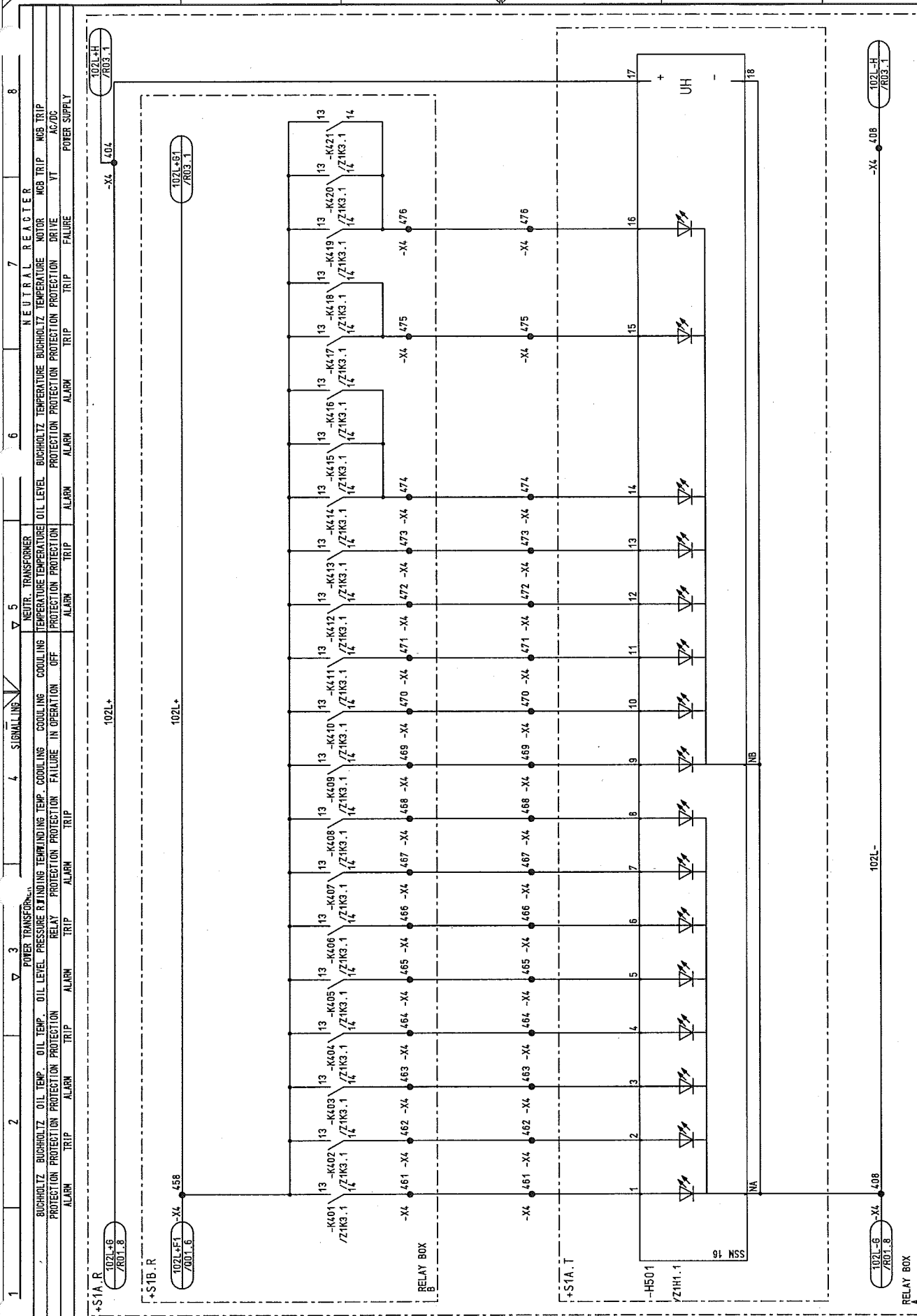


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							Orig.															

D00978102 Copyright as per DIN 34 to be observed!

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R01
ADAM

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.223	S -L01	8
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01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	01	INCOMING	D009781.02.601-3.AHA	1355h



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MEASUREMENT

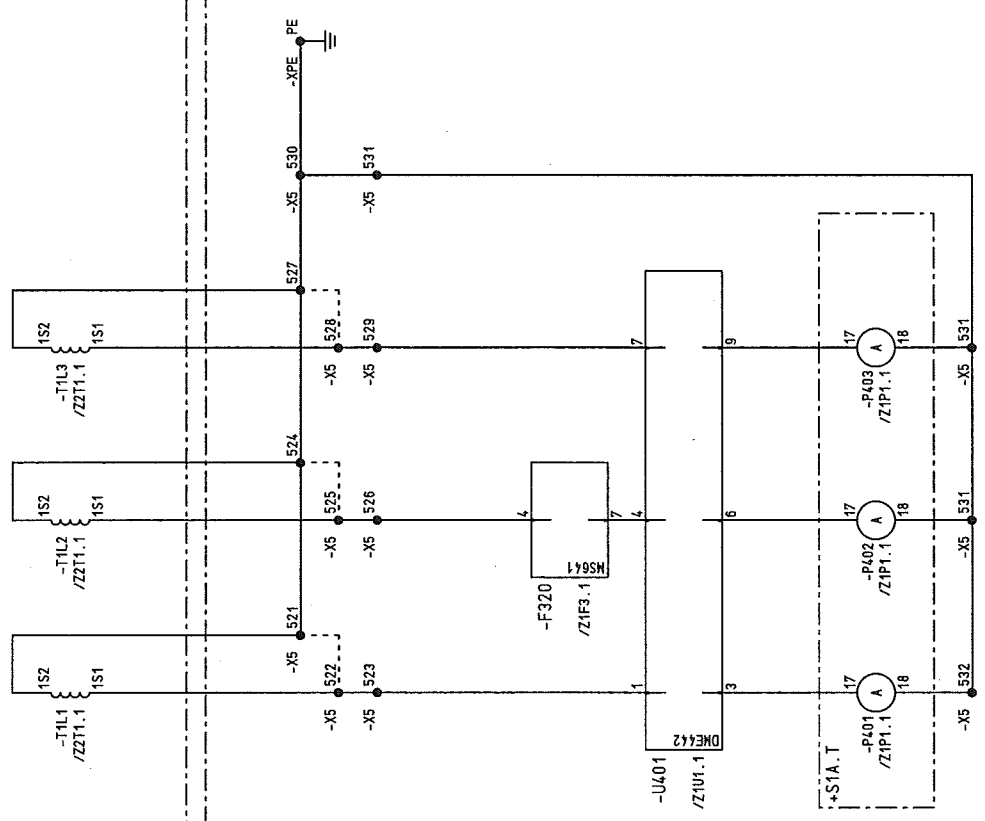
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PANEL A

+S1A.R

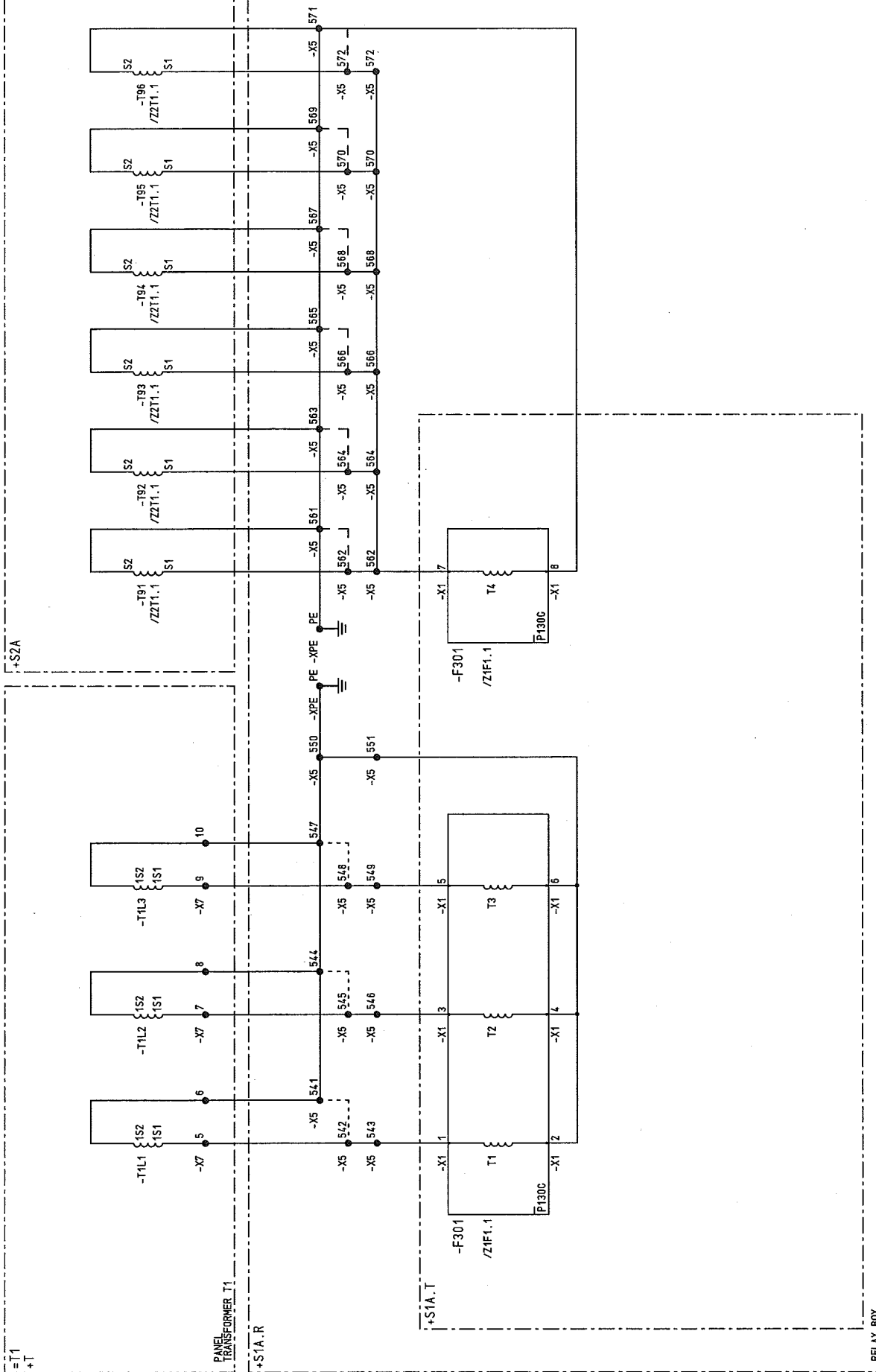
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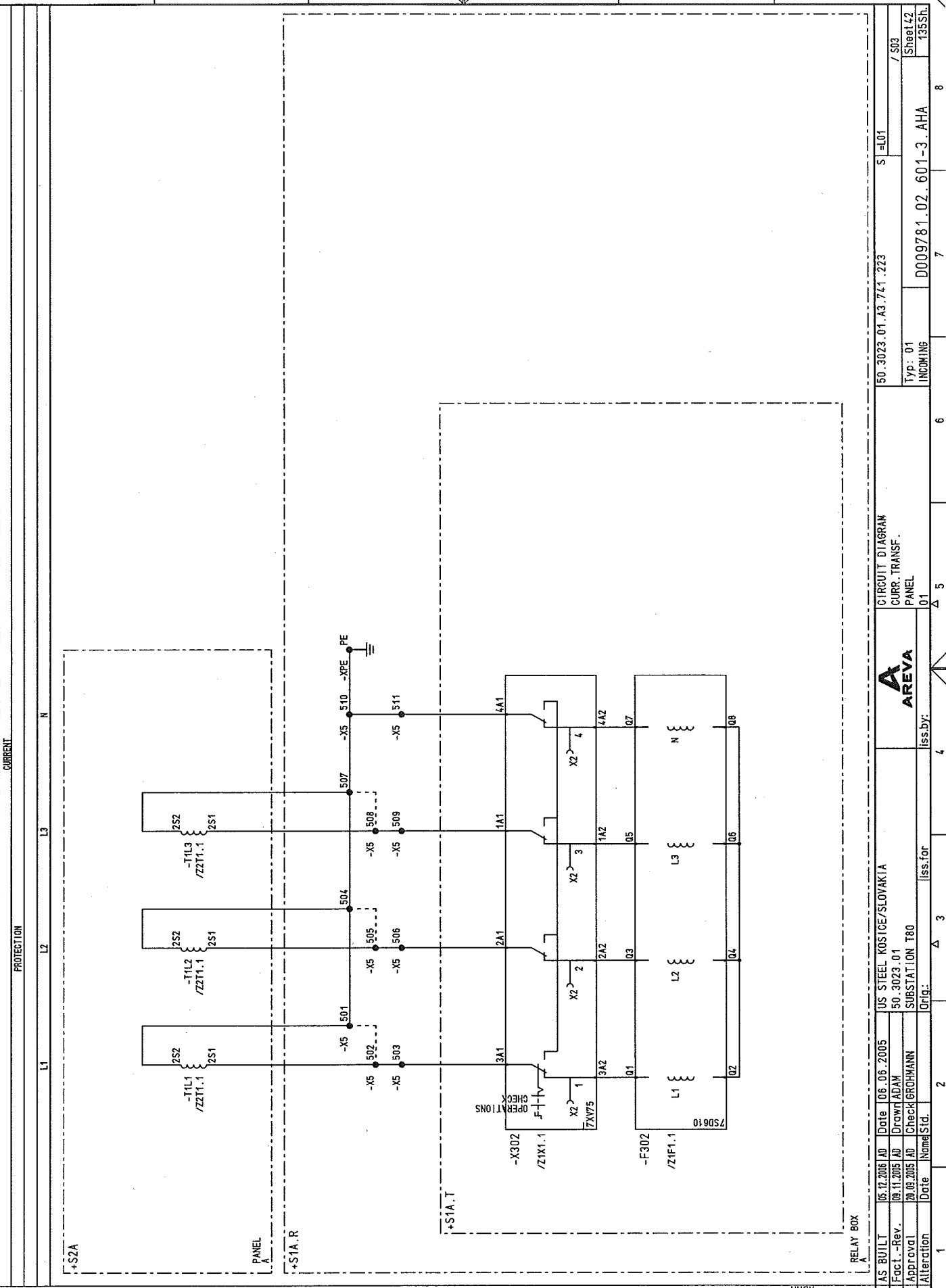
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02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	CURR. TRANSF.				
01	Approval	20.06.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL				Sheet 40
NO.	Alteration	Date	Name	Std.		Iss. for	Iss. by:	Orig.			135Sh
								D009781.02.601-3.AHA			

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S01
ADAM



03	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		CIRCUIT DIAGRAM		S = L01
02	Fast.-Rev.	09.11.2005	AD	Drown ADAM	50.3023.01	SUBSTATION T80		CURR. TRANSF.		
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01	Alteration			Name Std.		Orig:		Type: 01		
INNO.				Date		Iss for	Iss by:	INC00ING	D009781.02.601-3.AHA	Sheet 4.1 135Sh.



NO.	03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	50.3023.01	50.3023.01.A3.741.223	S	EL01	Sheet 42	135Sh
02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	50.3023.01	50.3023.01	50.3023.01	50.3023.01	S	EL01	Sheet 42	135Sh
01	Approval	20.08.2005	AD	Check	GROHMANN	SUBSTATION T80	SUBSTATION T80	SUBSTATION T80	SUBSTATION T80	SUBSTATION T80	S	EL01	Sheet 42	135Sh
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:	Iss. for	Iss. by:	Iss. for	S	EL01	Sheet 42	135Sh
1											S	EL01	Sheet 42	135Sh

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22.12.2006
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S03
ADAM

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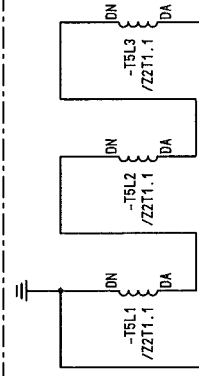
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MEASUREMENT

PROTECTION

L1 L2 L3 N

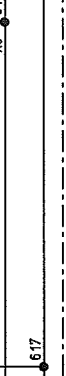
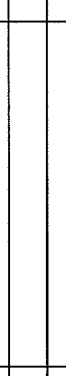
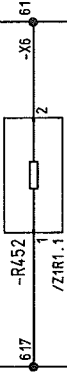
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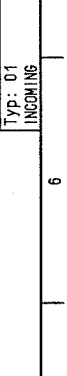
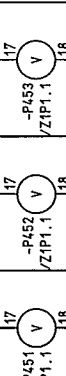
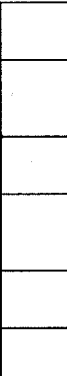
+S1B.R



+S1A.R



+S1A.T



D0978102 Copyright as per DIN 34 to be observed!

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ADAM

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM		50.3023.01
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	
NO.	Alteration	Date	NormStd.	Iss.	for	Iss.	by:

CIRCUIT DIAGRAM
VOLTAGE TRANSF.
PANEL
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50.3023.01.A3.741.223

Typ: 01
INCOMING

D009781.02.601-3.AHA

/ 101

Sheet 43
135Sh

8

CAPACITIVE VOLTAGE INDICATION (VDS)

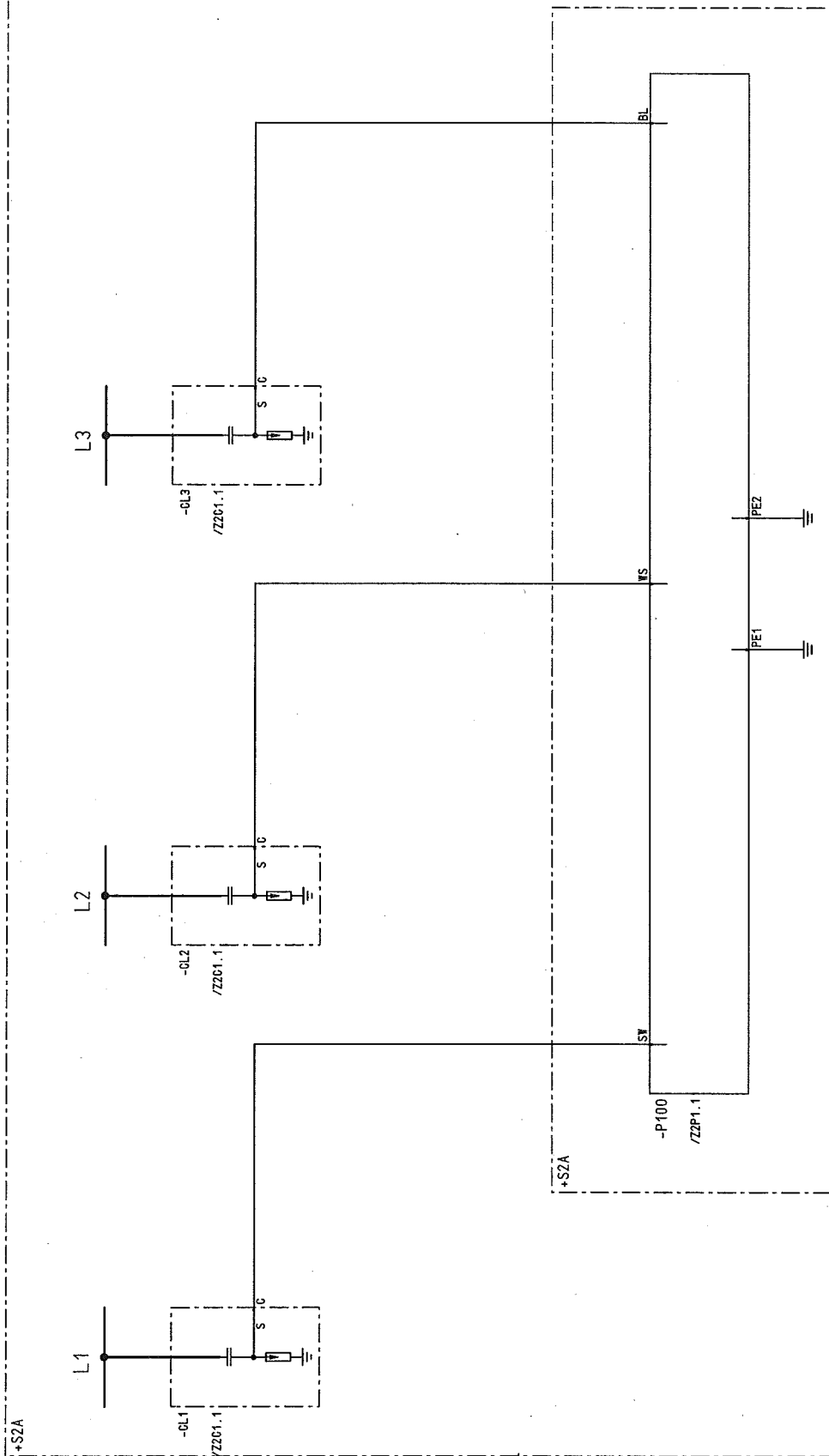
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DISPLAY



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AS BUILT
Fact.-Re
Approval
Alteration

	05.12.2005	AD	Date	06.06.2005
v.	09.11.2005	AD	Drawn	ADAM
	20.09.2005	AD	Check	GROHMANN
	Date	Name	Std.	

US STEEL KOSICE/SLOVAKIA	
50.3023.01	
SUBSTATION T80	
Orig:	Iss: f

CIRCUIT DIAGRAM
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01

Typ: 01 INCOMING	50.3023.01.A3.741.223
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T02
Sheet 44
135Sh

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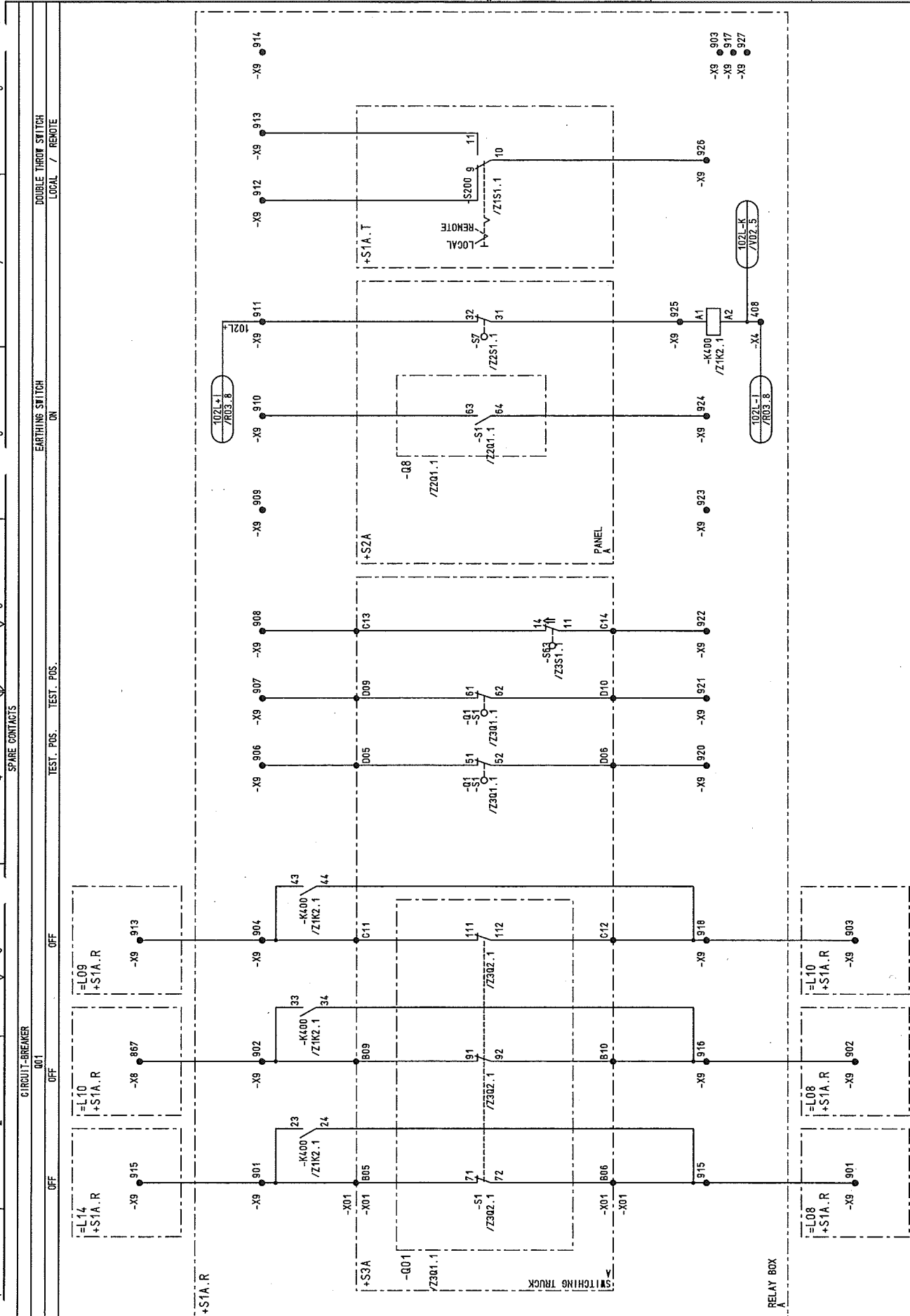
Copyright as per DIN 34 to be observed!

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T02
ADAM

D0978102 Copyright as per DIN 34 to be observed

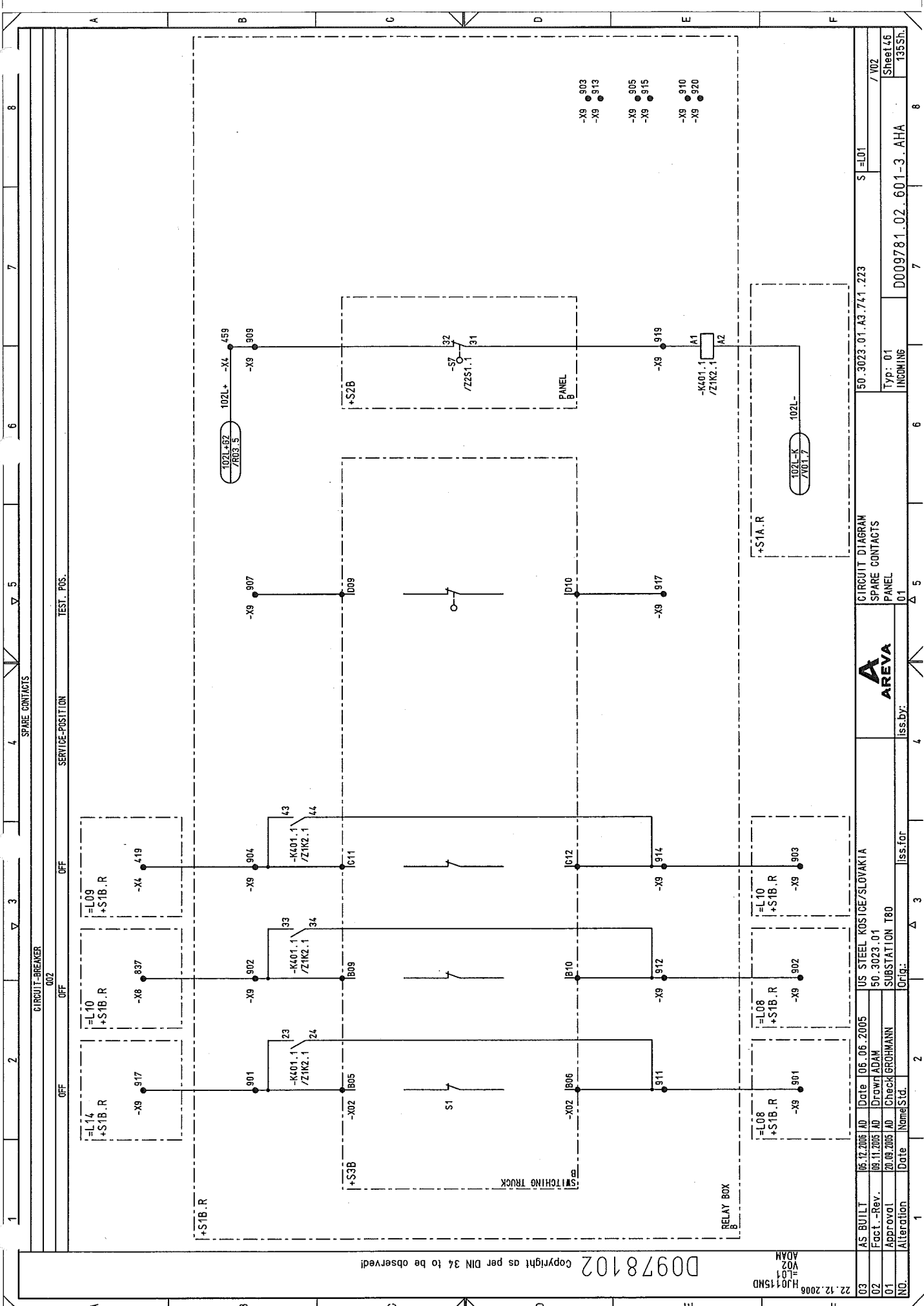
05.01.2007
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V01
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NO.	Alteration	Date	Name	Std.	Orig.	Iss. by:	Iss. for		135Sh



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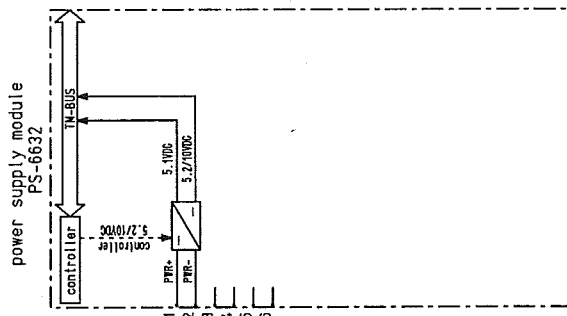
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01	Approval	20.03.2005	AD	Checked	GROHMANN	SUBSTATION T80	PANEL				
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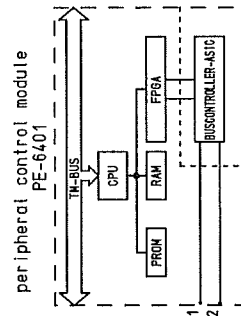




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NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:	01		D009781.02.601-3.AHA		135Sh.	
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						1		2	7		8		9	

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AX	PE-BUS		AX	PE-BUS	

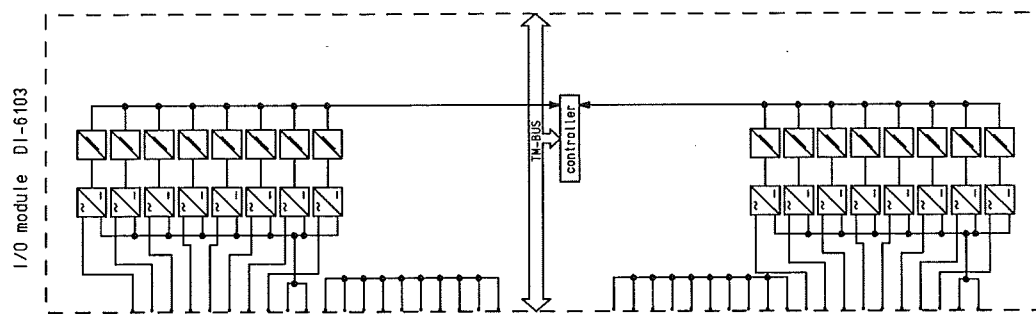


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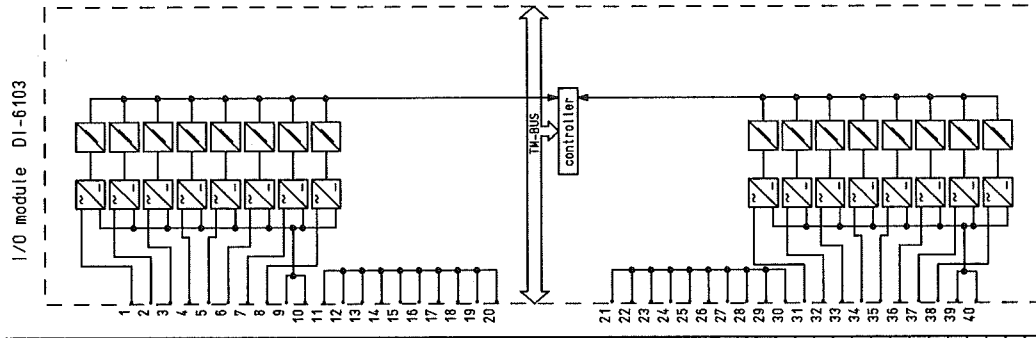
D0978102 Copyright as per DIN 34 to be observed!

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Z1A11
ADAM

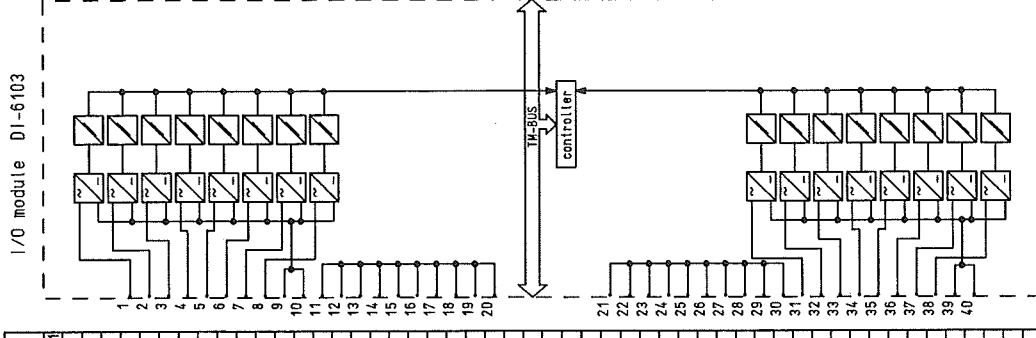
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MEANING		
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6	IN D05	/002.5
7	IN D06	/003.5
8	IN D07	/003.5
9	AUX V-(-)	/002.3
10	AUX V-(-)	/002.4
11	AUX V-(-)	
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6	IN D05	/005.3
7	IN D06	/005.7
8	IN D07	/005.7
9	AUX V-(-)	/005.2
10	AUX V-(-)	/005.2
11	AUX V-(-)	
12	AUX V-(-)	
13	AUX V-(-)	
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32	IN D11	/005.1
33	IN D12	/007.2
34	IN D13	/007.2
35	IN D14	/007.2
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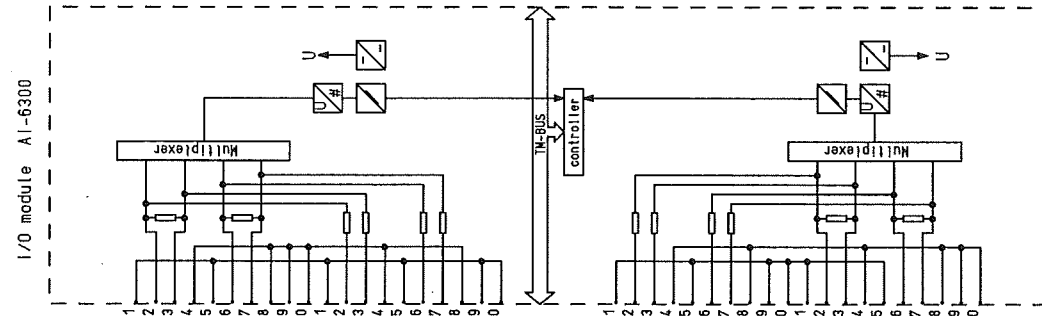
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7	IN D06	/007.8
8	IN D07	/008.2
9	AUX V-(-)	/007.5
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11	AUX V-(-)	
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13	AUX V-(-)	
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15	AUX V-(-)	
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40	AUX V-(-)	/008.2



03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Iss. for	Orig.

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01					
Iss. by:					
4					

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Typ: 01					
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Sheet 50					
135Sh.					
7/21A11					

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ABEVA

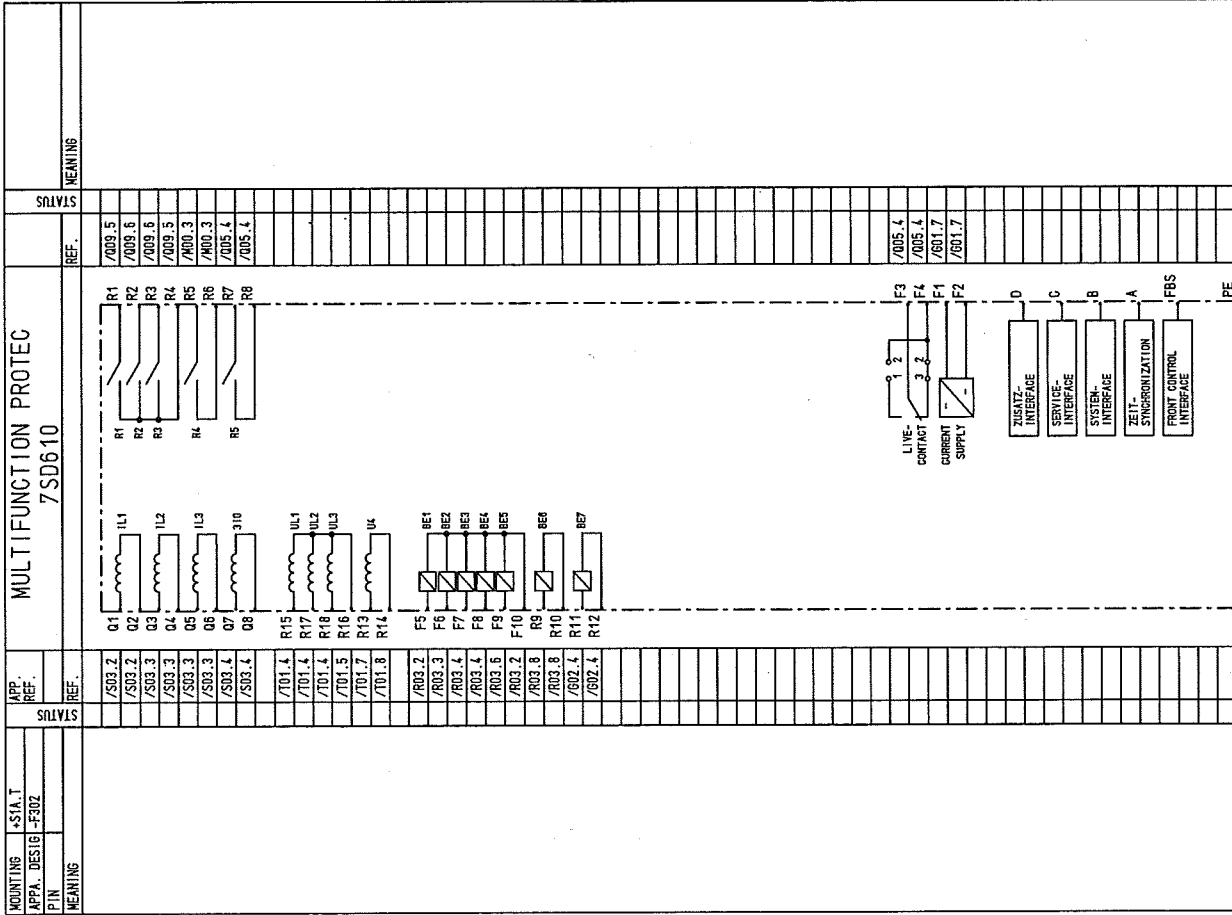
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02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01						/ Z1F10
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80		PANEL		Type: 01		Sheet53
NO.	Alteration	Date		Alteration		Orig.:		01		INC00ING		D009781.02.601-3.AHA

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03	AS BUILT	06.12.2006	AD	Date	06.08.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	LIST OF EQUIPMENT		50.3023.01.A3.741.223		S=L01		
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01			PANEL		Typ: 01			/ ZIF11
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION 780					INCOMING			Sheet 54
00.	Alteration	Date	Named	Std.		Orig.:			iss.by:					135SH.
									01		D009781.02.601-3.AHA			

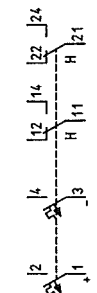
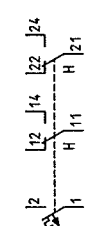
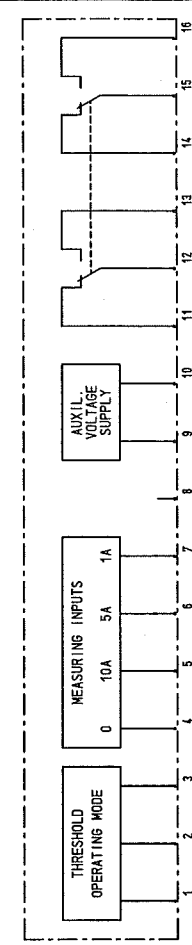
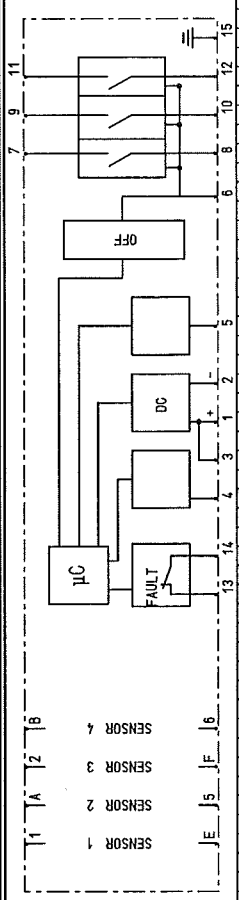


D0978102		Copyright as per DIN 34 to be observed!		22.12.2006		H.10.15MD		ZIF13		ADAM	
03	AS BUILT	05.12.2006	AD	Date	06.06.2005	UG-STEEL-K6516E/SEVAKH		LIST OF EQUIPMENT		50.3023.01.A3.741.223	
02	Fact.-Rev.	09.11.2005	AD	Date	50.3023.01	SUBSTATION T80		PANEL		S -L01	
01	Approval	20.09.2005	AD	Drawn	AD	SUBSTATION T80		01		Typ: 01	
NO.	Alteration	Date	Name	Std.	Iss. for	Orig.		D009781.02.601-3.AHA		Sheet 155	
										135Sh	



003	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
002	Facit -Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01
001	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION 780
001	Alteration	Date	Name	Date	Orig.:	Iss. S

1	2	3	4	5	6	7	8
DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS			REMARK
2	ARC DETECTOR DC 24V MANUF.: AREVA PO NO.: C66622	TYPE ILIS					
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	APPLICATION	SETTINGS	MOUNTING	SYM IDENTIFIER			
	ARC DETECTOR		+S1A-R	-F310			
	ARC DETECTOR		+S1B-R	-F310			
1	CURRENT SENSING RELAY MANUF.: ALSTOM PO NO.: TYPE MS 641						
	AUXILIARY VOLTAGE : 230V AC						
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	MESSSTROM NENNSTROM NOMINAL CURRENT : 6A						
	MESSSTROM NOMINAL VOLTAGE : 0.58 1A (EINSTELLWERT)						
	MESSSTROM HYSTERESE 10%						
	MESSSTROM ANSPRECHVERZÖGERUNG 0s						
	APPLICATION	SETTINGS	MOUNTING	SYM IDENTIFIER			
	CURRENT		+S1A-R	-F320			
2	SICHERUNGSAUTOMAT HILFSSCHALTER HH MANUF.: GE POWER CONTROLS PO NO.: TYPE EP61 B6						
	NENNSTROM NOMINAL CURRENT : 6A						
	NENNSTROM NOMINAL VOLTAGE : 0.58 1A (EINSTELLWERT)						
	NENNSTROM HYSTERESE 10%						
	NENNSTROM ANSPRECHVERZÖGERUNG 0s						
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	HILFSSCHALTER		CB SH/HH-R	672570			
	APPLICATION	SETTINGS	MOUNTING	SYM IDENTIFIER			
	FAN		+S1A-R	-F117			
	FAN		+S1A-R	-F127			
1	M.C.B. AUXILIARY SWITCH HH MANUF.: MOELLER PO NO.: TYPE C 4A						
	RATED CURRENT : 4A						
	CHARACTERISTIC : C						
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	AUXILIARY SWITCH						
	APPLICATION	SETTINGS	MOUNTING	SYM IDENTIFIER			
	SIGNALLING		+S1A-R	-F203			
03	AS BUILT	05.12.2005 AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005 AD	Drawn	ADAM	50.3023.01		
01	Approval	20.09.2005 AD	Check	GROHMANN	SUBSTATION T80		
NO.	Alteration	Date	Name/Std.	Iss.by:	Iss.for	2	
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						8	



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03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	LIST OF EQUIPMENT		50_3023_01.A3.741.223		S =L01
01	Fact. --Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01		PANEL		Type: 01	/ ZHHH	
02	Approval	20.09.2005	AD	Check	BROHMANN	SUBSTATION T80		01		INCOMING	Sheet 58	
04	Alteration			Date	Name	Std.		Orig.:		iss.by:	D009781.02..601-3_AHA	

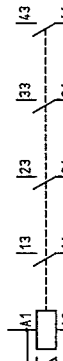
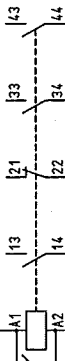
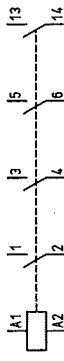
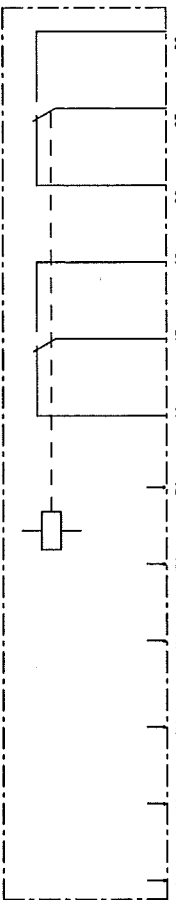
1	2	3	4	5	6	7	8
DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS				
1	TIME RELAY OUTPUT PULSE 1=50ms FUNCTION : IMPULSDEHNER RATED VOLTAGE : 24-240AC/DC TECHNICAL COMPONENTS MANUF.: AREVA PO NO.: 701917/1 TYPE C27900						
8	AUXILIARY CONTACTOR MANUF.: Schneider Electric PO NO.: CA3-KN31 MD3 RATED VOLTAGE : 220VDC TECHNICAL COMPONENTS TYPE CA3-KN31 MD3						
3	AUXILIARY CONTACTOR MANUF.: Schneider Electric PO NO.: CA3-KN31 MD3+LA1 KN13 RATED VOLTAGE : 220VDC TECHNICAL COMPONENTS TYPE CA3-KN31 MD3						
1	TRIPPING RELAY MANUF.: Schneider Electric PO NO.: CA3-DK22 MD3+LA1 DN40 RATED VOLTAGE : 220VDC TECHNICAL COMPONENTS TYPE CA3-DK22 MD3+LA1 DN40						

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03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	LIST OF EQUIPMENT	50.3023.01.A3.741.223	S1=01	7 MK2
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80		PANEL			
NO.	Alteration	Date	Name/Std.	Orig.	Iss.for	Iss.by:	01	01	INCOMING	D009781.02.601-3. AHA	135Sh.

1	2	3	4	5	6	7	8
DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APPA. DESIGN.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS			REMARK
2	TIME RELAY RUECKFALLVERZOEGERT 30MIN VOLTAGE : 230V AC TECHNICAL COMPONENTS MANUF.: SCHIELE PO NO.: TYPE MFS TYP : ORDER NO						
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	FAN	*S1A.R	*K320				
	FAN	*S1B.R	*K320				
2	AUXILIARY RELAY Ö/S/W 01/05/00 AUXILIARY VOLTAGE : 230V AC TECHNICAL COMPONENTS MANUF.: TELEMECANIQUE PO NO.: TYPE LC1 D1Z0 20P7 TYP : ORDER NO						
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	FAN CONTROL	*S1A.R	*K101				
	FAN CONTROL	*S1B.R	*K101				
4	AUXILIARY RELAY 3S/10E AUXILIARY VOLTAGE : 230V AC TECHNICAL COMPONENTS MANUF.: SCHNEIDER PO NO.: TYPE CA2-KN31 P72 TYP : ORDER NO						
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	FAN	*S1A.R	*K102				
	FAN	*S1B.R	*K102				
	FAN	*S1A.R	*K320 A				
	FAN	*S1B.R	*K320 B				
4	AUXILIARY RELAY 4S AUXILIARY VOLTAGE : 230V DC TECHNICAL components per device MANUF.: SCHNEIDER Ord. No.: Type: CA3-KN40 M03 TYP : ORDERING number						
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	FAN	*S1A.R	*K102				
	FAN	*S1B.R	*K102				
	FAN	*S1A.R	*K320 A				
	FAN	*S1B.R	*K320 B				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	CBF1	*S1A.R	*K0BF1				
	CBF2	*S1A.R	*K0BF2				
		*S1A.R	*K400				
		*S1B.R	*K401.1				



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1	2	3	4	5	6	7	8
Stock- TITTY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS MOUNTING APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)				
1	MEAS. UNIT BIMETALLIC AMMETER SCALE: 20% OVERLOAD MEASUREMENT VARIABLE: 1A TECHNICAL COMPONENTS	MANUF.: WEIGEL PO NO.: TRANSFORMER CONNECTION 2A/1A TYP					
2	MEAS. UNIT MOVING-IRON AMMETER SCALE: 100 % OVERLOAD MEASUREMENT VARIABLE: 1A TECHNICAL COMPONENTS	MANUF.: WEIGEL PO NO.: TRANSFORMER CONNECTION 2A/1A TYP					
3	MEAS. UNIT VOLTMETER MEASUREMENT VARIABLE: V TECHNICAL COMPONENTS	MANUF.: WEIGEL PO NO.: MOVING-IRON TYP					
	APPLIGATION CURRENT MEAS L2	SETTINGS +51A.T	MOUNTING -P402	BTM IDENTIFIER			
	APPLIGATION CURRENT MEAS L1	SETTINGS +51A.T	MOUNTING -P401	BTM IDENTIFIER			
	APPLIGATION CURRENT MEAS L3	SETTINGS +51A.T	MOUNTING -P403	BTM IDENTIFIER			
	APPLIGATION VOLTAGE L1-L2	SETTINGS +51A.T	MOUNTING -P451	BTM IDENTIFIER			
	APPLIGATION VOLTAGE L1-L3	SETTINGS +51A.T	MOUNTING -P452	BTM IDENTIFIER			
	APPLIGATION VOLTAGE L2-L3	SETTINGS +51A.T	MOUNTING -P453	BTM IDENTIFIER			

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22.12.2006
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03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	LIST OF EQUIPMENT	50.3023.01.A3.741.223	S=L01	/ZIP1
02	Fact.-Rev.	08.11.2005	AD	Drawn	ADAM	50.3023.01					
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80					
NO.	Alteration	Date	Name	Sid.	Orig.	Iss.for	Iss.by:				

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NO.	Alteration	Date	Name	Std.	Check	Drawn	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	LIST OF EQUIPMENT	50.3023.01.A3.741.223	S	L01	Sheet 65	135SL
03	AS BUILT	05.12.2005	AD													
02	Fact.-Rev.	09.11.2005	AD													
01	Approval	20.09.2005	AD													

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22.12.2006

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NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

135SL

NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

LIST OF EQUIPMENT

50.3023.01.A3.741.223

S

L01

Sheet 65

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NO.

Alteration

Date

Name

Std.

Check

Drawn

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

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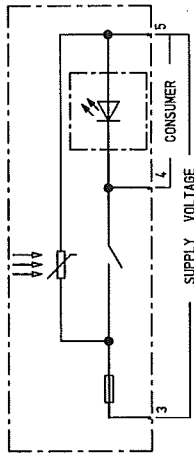
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	02	Fact. -Rev.	09.11.2005 AD	Drawn ADAM		50_3023.01								
	01	Approval	20.09.2005 AD	Check BROHMANN		SUBSTATION T80			PANEL					
	NO.	Alteration	Date	Name Sld.		Iss. for	iss.by:	01		Type: 01	INCENDING	D009781.02.601-3_AHA		Sheet 67
						Orig.:						135SHL		/ Z1X10

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6	DIODE SENSOR-DIODE FÜR ILIS	MANUF.: PO NO.: ILIS	TYPE				
TECHNICAL COMPONENTS				TYP	ORDER NO		
APPLICATION				SETTINGS	MOUNTING	BTN IDENTIFIER	
					*S2A	-B311	/N01.3
					*S2A	-B312	/N01.4
					*S2A	-B313	/N01.5
					*S2B	-B311	/N02.3
					*S2B	-B312	/N02.4
					*S2B	-B313	/N02.5
6	LUEFTERINDIKATOR	MANUF.: PO NO.: KRIWAN	TYPE 52N102S21				
SPANNUNG : 230V AC				TYP	ORDER NO		
TECHNICAL COMPONENTS				TYP	ORDER NO		
APPLICATION				SETTINGS	MOUNTING	BTN IDENTIFIER	
FAN INDIKATOR					*S2A	-B101	/003.2
FAN INDIKATOR					*S2A	-B102	/003.4
FAN INDIKATOR					*S2A	-B103	/003.5
FAN INDIKATOR					*S2B	-B101	/003.6
FAN INDIKATOR					*S2B	-B102	/004.3
FAN INDIKATOR					*S2B	-B103	/004.4
					*S2B	-B103	/004.5
					*S2B	-B103	/004.6
					*S2B	-B103	/004.7
					*S2B	-B103	/004.8
					*S2B	-B103	/004.9
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					*S2B	-B103	/004.11
					*S2B	-B103	/004.12
					*S2B	-B103	/004.13
					*S2B	-B103	/004.14
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					*S2B	-B103	/004.56
					*S2B	-B103	/004.57
					*S2B	-B103	/004.58
					*S2B	-B103	/004.59
					*S2B	-B103	/004.60
					*S2B	-B103	/004.61
					*S2B	-B103	/004.62
					*S2B	-B103	/004.63
					*S2B	-B103	/004.64
					*S2B	-B103	/004.65
					*S2B	-B103	/004.66
					*S2B	-B103	/004.67
					*S2B	-B103	/004.68
					*S2B	-B103	/004.69
					*S2B	-B103	/004.70
					*S2B	-B103	/004.71
					*S2B	-B103	/004.72
					*S2B	-B103	/004.73
					*S2B	-B103	/004.74
					*S2B	-B103	/004.75
					*S2B	-B103	/004.76
					*S2B	-B103	/004.77
					*S2B	-B103	/004.78
					*S2B	-B103	/004.79
					*S2B	-B103	/004.80
					*S2B	-B103	/004.81
					*S2B	-B103	/004.82
					*S2B	-B103	/004.83
					*S2B	-B103	/004.84
					*S2B	-B103	/004.85
					*S2B	-B103	/004.86
					*S2B	-B103	/004.87
					*S2B	-B103	/004.88
					*S2B	-B103	/004.89
					*S2B	-B103	/004.90
					*S2B	-B103	/004.91
					*S2B	-B103	/004.92
					*S2B	-B103	/004.93
					*S2B	-B103	/004.94
					*S2B	-B103	/004.95
					*S2B	-B103	/004.96
					*S2B	-B103	/004.97
					*S2B	-B103	/004.98
					*S2B	-B103	/004.99
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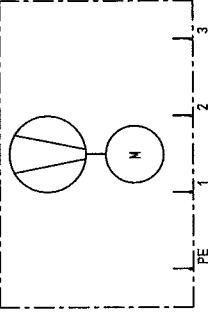


03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.223	S	=L01	/ 7281
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					
01	Approval	20.08.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL				
NO.	Alteration	Date	Name	Sig.	Iss.by:	Iss.for	01	INCOMING	D009781.02.601-3.AHA		135Sh.

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01.A3.741.223	S=L01	/ Z2C1	
03	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01							
02	Approval	20.03.2005	AD	Check	GROHMANN	SUBSTATION T80			PANEL	Typ.: 01			
01	Alteration	Date	Name	Std.		Orig.:	Iss. for	Iss. by:	01	D009781.02.601-3.AHA		Sheet 69	
NO.										INCOMING		135Sh.	

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1	2	3	4	5	6	7	8
DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER SETTINGS	TYPE, ORDERING DATA MOUNTING	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS			
6	FAN	MANUF.: PO NO.:					
VOLTAGE : 230V AC							
TECHNICAL COMPONENTS							
TYP							
ORDER NO							
APPLICATION	SETTINGS	MOUNTING		BTN. IDENTIFIER			
FAN		+S2A		-E101	/003.2	/003.2	
FAN		+S2A		-E102	/003.4	/003.4	
FAN		+S2A		-E103	/003.6	/003.5	
FAN		+S2B		-E101	/004.2	/004.2	
FAN		+S2B	-E102	/004.4	/004.4		
FAN		+S2B	-E103	/004.6	/004.5		

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.223	S	E101	7 Z2E1
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL	D009781.02.601-3.AHA	Typ: 01		Sheet 70
NO.	Alteration	Date	Name	Std.	2	Iss. for	Iss. by:	INCOMING			135Sh.



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1	2	3	4	5	6	7	8
Slack- TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	ORDERING DATA MOUNTING	APP. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
1	INDICATOR INTELLIGENT	MANUF.: AREVA Sachsenwerk PO NO.: VOLT	TYPE IVIS INFORMATION SYSTEM				
TECHNICAL COMPONENTS							
APPLICATION							
IVIS							
SETTINGS							
MOUNTING							
+S2A							
BTM IDENTIFIER							
-P100							
ORDER NO							
TYP							
SW							
WS							
BL							
PE1							
PE2							
/T02.3							
/T02.5							
/T02.7							
/T02.5							
/T02.5							

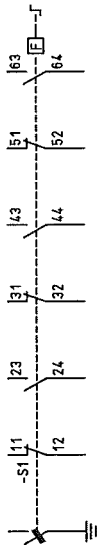
03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.223	S	L01	/ ZP1
02	Fact.-Rev.	09.11.2005 AD	Drawn	ADAM	50.3023.01	PANEL				Sheet 71
01	Approval	20.08.2005 AD	Checked	GROHMANN	SUBSTATION T80	01				135Sh
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	Typ: 01 INCOMING	D009781.02.601-3.AHA		

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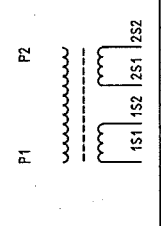
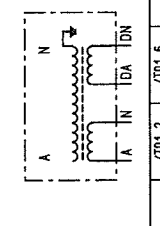
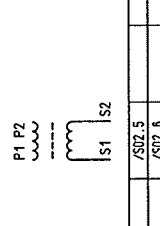
03	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.223	S=L01	8
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	PANEL			7
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80	01			6
NO.	Alteration	Date	Named	Std.		Iss. for	Iss. by:	D009781.02.601-3.AHA	Typ: 01 INCOMING	8

1	2	3	4	5	6	7	8
Stock- TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	SETTINGS	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
1	EARTHING SWITCH	MANUF.: AREVA PO NO.:	TYPE KGE 80/24-2				
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	EARTHING SWITCH		*S2A	-08			



1	2	3	4	5	6	7	8
SYMBOL	DESCRIPTION, DESIGN, TECHNICAL DATA	MANUFACTURER, TYPE, ORDERING DATA	APPARATUS SYMBOL DIAGRAM	REFERENCE TO INDIVIDUAL TREATMENT	WITH REFERENCES TO DETAILS		
1	2	3	4	5	6	7	8
SYMBOL	DESCRIPTION, DESIGN, TECHNICAL DATA	MANUFACTURER, TYPE, ORDERING DATA	APPARATUS SYMBOL DIAGRAM	REFERENCE TO INDIVIDUAL TREATMENT	WITH REFERENCES TO DETAILS		
1	2	3	4	5	6	7	8
SYMBOL	DESCRIPTION, DESIGN, TECHNICAL DATA	MANUFACTURER, TYPE, ORDERING DATA	APPARATUS SYMBOL DIAGRAM	REFERENCE TO INDIVIDUAL TREATMENT	WITH REFERENCES TO DETAILS		
2	AUXILIARY SWITCH PLUG PULLED	MANUF.: AREVA PO NO.:	TYPE				
	TECHNICAL COMPONENTS						
	APPLICATION						
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	PLUG PULLED						
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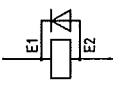
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Slack- TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS MOUNTING APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK		
3	CURR. TRANSF. 4000/1/1A	MANUF. : AEG PO NO. : TECHNICAL COMPONENTS : TYP : ORDER NO	TYPE CT12 				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	CURR. TRANSF. L1		*S2A	-T1L1			
	CURR. TRANSF. L2		*S2A	-T1L2			
	CURR. TRANSF. L3		*S2A	-T1L3			
3	VOLTAGE TRANSF. WITH DA/DN WINDING	MANUF. : PO NO. : TECHNICAL COMPONENTS : IEC : TYP : ORDER NO	TYPE SEE COVER SHEET : SINGLE PHASE 				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	VOLT. TRANSF. L1		*S2B	-T1L1			
	VOLT. TRANSF. L2		*S2B	-T1L2			
	VOLT. TRANSF. L3		*S2B	-T1L3			
6	CABLE-TYPE CT 60/1A	MANUF. : AEG PO NO. : TECHNICAL COMPONENTS : TYP : ORDER NO	TYPE RKT 250/160 				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	CABLE-TYPE CT		*S2A	-T1			
	CABLE-TYPE CT		*S2A	-T2			
	CABLE-TYPE CT		*S2A	-T3			
	CABLE-TYPE CT		*S2A	-T4			
	CABLE-TYPE CT		*S2A	-T5			
	CABLE-TYPE CT		*S2A	-T6			

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.223	S: L01	7 Z2T1
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01				
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL	Typ: 01	INCOMING	Sheet 174
NO.	Alteration	Date	Name	Std.		Iss. for	Iss. by:			135 Sh.

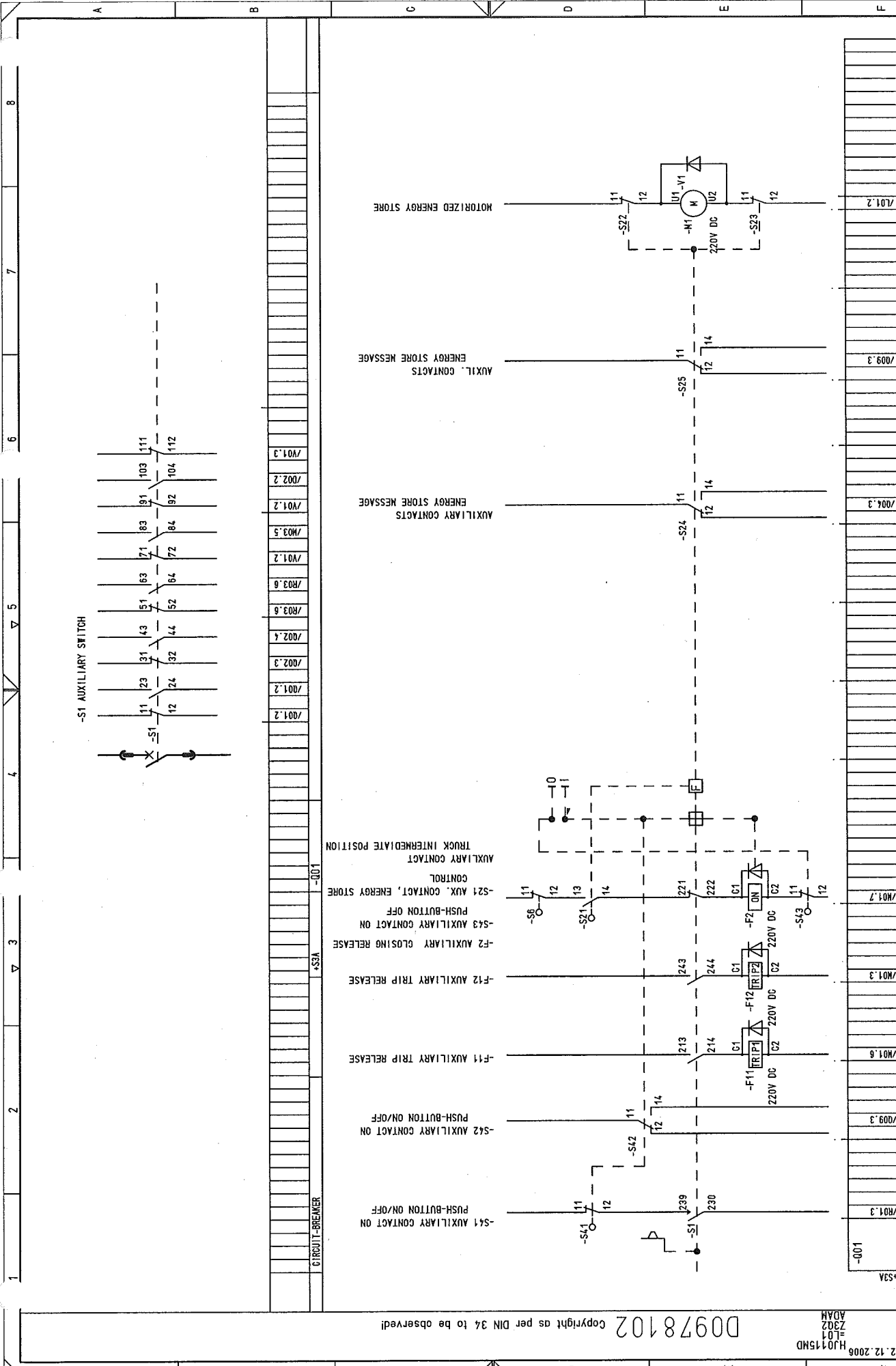
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1	2	3	4	5	6	7	8
1	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS MOUNTING	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)			
1	SPERRMAGNET SPERRMAGNET AM ERDER	MANUF.: ALSTOM PO NO.: TYPE 220VDC					
TECHNICAL COMPONENTS		TYP	ORDER NO				
APPLICATION RELEASE	EARTHING SWITCH	SETTINGS	MOUNTING +SZA	BTM IDENTIFIER -Y8			
							
				/M03.3			

03	AS BUILT	05.12.2005 AD	Date	10.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	150.3023.01.A3.741.223	S	=L01	/ ZZY1
02	Fact.-Rev.	09.11.2005 AD	Drawn	ADAM	50.3023.01	PANEL				
01	Approval	20.09.2005 AD	Checked	GROHMANN	SUBSTATION T80	01				
NO.	Alteration	Date	Named	Std.	Orig.	Iss. for	Iss. by:	D009781.02.601-3.AHA		135Sh.

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50_3023_01.A3.741.223	S =L01	
02	Fact. -Rev.	06.11.2005	AD	Drawn	ADAM	50_3023_01						/ 7301
01	Approval	20.04.2005	AD	Check	GROHMANN	SUBSTATION T80		PANEL	Typ: 01		Sheet 76	
NO.	Alteration	Date	Name/Std.	Orig.	iss.by:	iss.for		01	INCOMING		D009781.02.601-3.AHA	135Sh.



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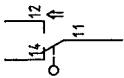
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03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.223	S ±L01	7 Z3S1
02	Fact.-Rev.	09.11.2005 AD	Drawn	ADAM	50.3023.01				
01	Approval	20.09.2005 AD	Check	GROHMANN	SUBSTATION T80				Sheet 78
NO.	Alteration	Date	Name	Std.	Orig.	iss. for	iss. by:	Typ: 01	INCOMING
								D009781.02.601-3.AHA	135Sh.

1	2	3	4	5	6	7	8
STUCK- TITTY	DESCRIPTION, DESIGN, APPLICATION	TECHNICAL DATA SETTINGS	MANUFACTURER, TYPE, MOUNTING	ORDERING DATA APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
3	ANSTOßSCHALTER	MANUF.: ALSTOM PO NO.:	TYPE				
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	APPLICATION	SETTINGS	MOUNTING	STK IDENTIFIER			
	CRANK INSERTED	SLIDE-IN MODULE	+S3A	-S61	/P01.2		
	CRANK INSERTED	SLIDE-IN MODULE	+S3A	-S62	/P02.6		
	CRANK INSERTED	SLIDE-IN MODULE	+S3A	-S63	/P01.5		



3033	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50_3023.01.A3.741.223	S=L01	
022	Fact.-Rev.	09.11.2005	AD	DRAWN ADAM	50_3023_01							
01	Approval	20.09.2005	AD	CHECK GROHMANN	SUBSTATION T80			PANEL		Type: 01	Sheet 79	
	Alteration	Date	Name	Sid.	Orig.	Iss. for	Iss. by:	01		INCOMING	D009781.02_601-3_AHA	135Sh.

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	TERMINAL DIAGRAM			50.3023.01.A3.741.223		V	=L01	
02	Fact. -Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01							+STA.R / K12		
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80									
NO.	Alteration	Date	None	Std.	Orig.	Iss. for	Iss. by:						Type: 01 INCOMING		Sheet Sh.

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL K051CE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01_A3.741_223	V=L01
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01				
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80				
NO.	Alteration	Date	Name	Std.	Grig.	iss.for				
								PANEL	Type: 01 INCOMING	Sheet 01
									D009781.02_601-3_AHA	Sh.

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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM					
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023.01							
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80							
00	Alteration												
Iss for: _____							iss by: _____	PANEL 01	Typ.: 01 INCOMING	V =L01 -S1A.R	50_3023.01_A3_741_223	0009781 02 601-3_AHA	Sheet / K40

50_3023_01_A3.741_223	V	=L01 +SIA.R	/K41
Typ: 01 INCOMING	D009781.02 601-3_AHA		
Sheet			Sh.

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	TERMINAL DIAGRAM		50.3023.01.A3.741.223	V=L01
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					+S1A.R
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80					/ K50
NO.	Alteration	Date	Name	Std.	Orig.:	Iss. for	Iss. by:	PANEL	Type: 01	INC/OM/NG	Sheet
								01			D009781.02.601-3.AHA

03	AS BUILT	05.12.2005	AD	Date	10.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM			50_3023_01_A3.74.1_223	V =L01	Sheet / K51
02	Fact.-Rev.	09.11.2005	AD	Drawn/ADAM		50_3023_01							
01	Approval	20.09.2005	AD	Checked GROHMANN		SUBSTATION T80		PANEL					
NO.	Alteration	Date	Name/Std.	Orig:	Iss.for	Iss.by:	01			Type: 01 INCOMING	D009781.02_601-3_AHA		Sh.

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01_A3_747_223	V = L01	/ K52	Sheet	Sh:
02	Fact. - Rev.	09.11.2005	AD	Drawn/ADAM	50_3023_01								
01	Approval	20.09.2005	AD	Check GROHMANN	SUBSTATION T80								
NO.	Alteration	Date	Name/Sid.	Orig:	iss. for	iss. by:		PANEL	01	Typ: 01	INCOMING	D009781.02_601-3_AHA	

003	AS BUILT	05.12.2006	AD	Date	05.06.2005	 AREVA	US STEEL KOSICE/SLOVAKIA 50_3023_01	TERMINAL DIAGRAM	
002	Fact.-Rev.	08.11.2005	AD	Drawn/ADAM	50_3023_01			50_3023_01.A3.741.223	
001	Approval	20.09.2005	AD	Check GROHMANN	SUBSTATION T80	PANEL 01	Type: 01 INCOMING	D009781.02.601-3.AHA	Sh.
000	Alteration	Date	Name/Stid	Iss for	Orig:				

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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	V = L01	50_3023_01_A3_7/4_1_223	+S1A_R	/ K82
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01						
01	Approval	20.09.2005	AD	Checked	ERHMAN	SUBSTATION T80						
00	Alteration	Date	Name	Sid	Iss for	Prin:	Iss by:	PANEL	Type: 01	INCOMING	Sheet	Sp:
00								01			D009781.02_601-3_AHA	

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM		50_3023_01.A3.747.223	V=L01	
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01					-SIA.R	
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80			PANEL			
00	Alteration	Date	Name	Sid.		Orig.		iss. for	01	Type: 01 INCOMING	D009781.02.601-3.AHA	Sh.

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CROSS CONNECTION										1	2	3	4	5	6	7	8
REFERENCE	POTENTIAL ITEM DR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6								
D01	AC230V L1 1 1.5MM2	H07V-K SW	-X0 2 -F117	1 -F127	1					A							
D02	117L1 1 1.5MM2	H07V-K SW	-X1 23 -F320	9 -F320	13 -F320	16											
D02	N	BL	-X1 26 -F320	10 -K320.A	A2 -K320.B	A2											
D03	1 1.5MM2	H07V-K SW	-K101	A1 -K320	18												
D03	1 1.5MM2	H07V-K SW	-K320	Y1 -K320.A	33												
D03	1 1.5MM2	H07V-K SW	-K320	Z2 -K320.A	34												
D03	107L1 1 1.5MM2	H07V-K SW	-X1 22 -K101	1 -K101	3 -K101	5											
D03	1 1.5MM2	H07V-K SW	-X1 23 -K320	25 -K320.A	13												
D03	107L1 1 1.5MM2	H07V-K SW	-X1 24 -K320	15 -K320	A1												
D03	N	BL	-X1 27 -K101	A2 -K102	A2 -K320	A2											
D03	1 1.5MM2	H07V-K SW	-X1 34 -K320	28 -K320.A	14												
600	GBF- 1 1.5MM2	H07V-K SW	-X1 196 -K0BF1	A2 -K0BF2	A2												
601	DC220V L+ 2 2.5MM2	H07V-K SW	-X0 12 -F003	1 -F004	1 -F02	1 -F03	1 -F104	1 -F111	1								

601	DC220V L- 2 2.5MM2	H07V-K SW	-X0 14 -F003	3 -F004	3 -F102	3 -F103	3 -F104	3 -F111	3								

602	1 1.5MM2	H07V-K SW	-K451A	54 -K451A	82												
602	1 1.5MM2	H07V-K SW	-K451A	81 -K451B	54												
602	04L+ 1 1.5MM2	H07V-K SW	-X4 419 -F451	22 -F452	22												
602	1 1.5MM2	H07V-K SW	-X4 420 -F451	21 -F452	21												
GROSS CONNECT. LIST										50.3023.01.A3.741.223			V=L01				
RELAY BOX										Typ: 01			+SIA.R		/ Q10		
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01															Sh.		

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03 AS BUILT 05.12.2005 AD Date 06.06.2005 IUS STEEL KOSICE/SLOVAKIA 50.3023.01

02 Fact.-Rev. 09.11.2005 AD Drawt ADAM

01 Approval 20.09.2005 AD Check GROHMANN SUBSTATION T80

NO Alteration Date NameStd. Iss.for

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05.01.2007

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:



CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM GR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
M00	1 1.5MM2	H07V-K SW	-K20	11 -K20	E1				
M00	1 1.5MM2	H07V-K SW	-K20	22 -K20	A1				
M00	102L- 1 1.5MM2	H07V-K SW	-X1	121 -K20	A2 -K20	E2			
M01	112L+ 1 1.5MM2	H07V-K SW	-X1	107 -K0BF1	13 -K10	43 -K20	53		
M01	102L+ 1 1.5MM2	H07V-K SW	-X1	114 -F310	7 -K0BF1	23 -K20	43		
M01	102L- 1 1.5MM2	H07V-K SW	-X1	122 -K01E	34 -K201	A2			
M01	0 1.0MM2	H05V-K SW	-X1	133 -F310	8 -K0BF1	24 -K20	44		
M01	1 1.5MM2	H07V-K SW	-X1	136 -K01A	14 -K201	14			
M01	1 1.5MM2	H07V-K SW	-X1	139 -K01A	13 -K01E	13			
M01	1 1.5MM2	H07V-K SW	-X1	140 -K01E	14 -K201	13 -K201	21		
M01	1 1.5MM2	H07V-K SW	-X1	144 -K0BF1	14 -K10	44 -K20	54		
M02	112L+ 1 1.5MM2	H07V-K SW	-X1	108 -K0BF2	33 -K10	13 -K20	63		
M02	102L+ 1 1.5MM2	H07V-K SW	-X1	119 -K0BF2	43 -K20	73			
M02	102L- 1 1.5MM2	H07V-K SW	-X1	125 -K02E	34 -K202	A2			
M02	1 1.5MM2	H07V-K SW	-X1	153 -K0BF2	44 -K20	74			
M02	1 1.5MM2	H07V-K SW	-X1	156 -K02A	14 -K202	14			
M02	1 1.5MM2	H07V-K SW	-X1	159 -K02A	13 -K02E	13			
M02	1 1.5MM2	H07V-K SW	-X1	160 -K02E	14 -K202	13 -K202	21		
M02	1 1.5MM2	H07V-K SW	-X1	163 -K0BF2	34 -K10	14 -K20	64		
M03	1 1.5MM2	H07V-K SW	-X1	130 -K01A	A2 -K01E	A2 -K02A	A2 -K02E	A2 -K71	A2 -K72
				GROSS CONNECT. LIST		50.3023.01.A3.741.223			
				RELAY BOX		+S1A.R			
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05.01.2007

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03	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	AREVA		GROSS CONNECT. LIST		50.3023.01		A2 -K71		A2 -K72		A2	
02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01			RELAY BOX				VI=L01				/ g11	
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION 180			PANEL				Typ: 01				Sheet	
NO.	Alteration	Date	Name	Std.	2	iss.for	4	iss.by:	01			D009781.02.601-3.AHA				Sh.		

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03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
02	Fact.-Rev.	09.11.2005 AD	Date	Drawt ADAM	50.3023.01
01	Approval	20.09.2005 AD	Date	Check BROHMANN	SUBSTATION T80
NO.	Alteration	Date	Issued	Iss. for	Orig.



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CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
	----->								
M04	1 1.5MM2	H07V-K SW		A2 -K451A	A2				
M04	1 1.5MM2	H07V-K SW		-A100 -X20	1 -K01A				
M04	1 1.5MM2	H07V-K SW		-A100 -X20	3 -K01E				
M04	1 1.5MM2	H07V-K SW		-A100 -X20	5 -K02A				
M04	1 1.5MM2	H07V-K SW		-A100 -X20	7 -K02E				
M04	102L+ 1 1.5MM2	H07V-K SW	-X1	120 -A100 -X20	11 -A100 -X20	13 -A100 -X20	15 -A100 -X20	17	
P02	1 1.5MM2	H07V-K SW	-X9	905 -X01	B11 -K400	13			
P02	1 1.5MM2	H07V-K SW	-X9	919 -X01	B12 -K400	14			
Q02	1 1.5MM2	H07V-K SW		-A100 -X10	10 -A100 -X10	40			
Q04	1 1.5MM2	H07V-K SW		-A100 -X10	38 -K0BF1	34 -K0BF2	14		
Q04	03L+ 1 1.5MM2	H07V-K SW	-X8	808 -F111	12 -F121	12 -F451	12 -F452	12	
Q04	03L+ 1 1.5MM2	H07V-K SW	-X8	813 -K0BF1	33 -K0BF2	13			
Q04	1 1.5MM2	H07V-K SW	-X8	833 -F111	11 -F121	11			
Q04	1 1.5MM2	H07V-K SW	-X8	837 -F451	11 -F452	11			
Q05	1 1.5MM2	H07V-K SW		-A100 -X11	10 -A100 -X11	40			
Q05	03L+ 1 1.5MM2	H07V-K SW	-X8	811 -F003	12 -F004	12 -F102	12 -F103	12 -F104	12
	----->			-F113	12 -F117	12 -F127	12 -F203	9 -F310	13
	----->			-K100	19 -K102	13			
Q06	1 1.5MM2	H07V-K SW		-A100 -X30	2 -U401	17			
Q06	1 1.5MM2	H07V-K SW		-A100 -X30	3 -U401	18			
				GROSS CONNECT. LIST					
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CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
006	1 1.5MM2	H07V-K SW		-A100 -X30 6 -U401	15				
006	1 1.5MM2	H07V-K SW		-A100 -X30 7 -U401	16				
006	1 1.5MM2	H07V-K SW		-A100 -X30 32 -U401	19				
006	1 1.5MM2	H07V-K SW		-A100 -X30 33 -U401	20				
006	1 1.5MM2	H07V-K SW		-A100 -X30 36 -U401	21				
006	1 1.5MM2	H07V-K SW		-A100 -X30 37 -U401	22				
006	1 1.5MM2	H07V-K SW	-X8	-F003 11 -F004 11 -F102 11 -F103 11 -F104 11 -F112 11					
006	1 1.5MM2	H07V-K SW		-F113 11 -F117 11 -F127 11 -F203 11 -K102 11					
R01	1 1.5MM2	H07V-K SW		-K01A 22 -K01E 21					
R01	1 1.5MM2	H07V-K SW		-K02A 22 -K02E 21					
R01	1 1.5MM2	H07V-K SW	-X4	-F003 22 -F004 22 -F102 22 -F103 22 -F104 22 -F111 22					
R01	1 1.5MM2	H07V-K SW	-X4	-F112 22 -F113 22 -F117 22 -F121 22 -F127 22 -F203 22					
R01	1 1.5MM2	H07V-K SW	-X4	-F003 21 -F004 21 -F102 21 -F103 21 -F104 21 -F111 21					
R03	102L+ 1 1.5MM2	H07V-K SW	-X4	404 -X9 911 -K01E 43 -K02E 43					
R03	1 1.5MM2	H07V-K SW	-X8	872 -K01E 44 -K02E 44					
S01	2 2.5MM2	H07V-K SW		-F320 7 -U401 4					
S01	2 2.5MM2	H07V-K SW		-U401 3 P401 17					
S01	2 2.5MM2	H07V-K SW		-U401 6 P402 17					
S01	2 2.5MM2	H07V-K SW		-U401 9 P403 17					

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00978102

03 AS BUILT 05.12.2005 AD Date 06.06.2005 US STEEL KOSTICE/SLOVAKIA

02 Fact.-Rev. 09.11.2005 AD Drawn ADAM 50.3023.01

01 Approval 20.09.2005 AD Check GROHMANN SUBSTATION T80

NO. Alteration Date Name/Std. Orig. Iss. for Iss. by:

50.3023.01.A3.741.223 VI -L01 +STA.R 7 013

Typ: 01 INCOMING D009781.02.601-3.AHA Sheet

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM OR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
602	1 1.5MM2	H07V-K SW		-F301 -X1 15 -F302	R11				
602	04L- 1 1.5MM2	H07V-K SW		-F301 -X1 16 -F302	R12				
M00	1 1.5MM2	H07V-K SW		-F302	R6 -X302				
M00	102L+ 0 1.0MM2	H05V-K SW		-S2	13 -S2				
M01	1 1.5MM2	H07V-K SW		-S01A	13 -S01E	13 -S200			
M02	102L+ 1 1.5MM2	H07V-K SW		-F301 -X3	33 -F301 -X3	36 -S200	2 -S200		
M02	1 1.5MM2	H07V-K SW		-S02A	13 -S02E	13 -S200			
005	1 1.5MM2	H07V-K SW		-F301 -X3	19 -F302	F4			
005	03L+ 1 1.5MM2	H07V-K SW		-F301 -X3	20 -F301 -X3	22 -F302	F3 -F302		
005	1 1.5MM2	H07V-K SW		-F301 -X3	26 -F302	R8			
R01	102L+ 1 1.5MM2	H07V-K SW		-S01A	21 -S02A	21			
R01	1 1.5MM2	H07V-K SW		-S01A	22 -S01E	21			
R01	1 1.5MM2	H07V-K SW		-S02A	22 -S02E	21			
R02	102L- 1 1.5MM2	H07V-K SW		-H501	18 -H501	NA -H501			
R03	1 1.5MM2	H07V-K SW		-F301 -X1	17 -F302	R9			
R03	102L- 1 1.5MM2	H07V-K SW		-F301 -X1	18 -F302	F10 -F302	R10		
R03	102L+ 1 1.5MM2	H07V-K SW		-S01E	43 -S02E	43			
R03	1 1.5MM2	H07V-K SW		-S01E	44 -S02E	44			
S02	2 2.5MM2	H07V-K SW		-F301 -X1	2 -F301 -X1	4 -F301 -X1	6		
S03	2 2.5MM2	H07V-K SW		-F302	01 -X302	3A2			

03 AS BUILT 05.12.2005 AD Date 06.06.2005		JUS STEEL KOSICE/SLOVAKIA	
02 Fact.-Rev. 09.11.2005 AD Drawn ADAM	50.3023.01		
01 Approval 20.09.2005 AD Check BROHMANN	SUBSTATION T80		
NO. Alteration	Date	Name	Std.
Iss. for		Iss. by:	
Orig.		GROSS CONNECT. LIST	
RELAY BOX		150.3023.01.A3.741.223	
PANEL		V = 01	
01		+51A.T / 015	
D009781.02.601-3.AHA		Sheet 107	
INCOMING		135Sh.	

Copyright as per DIN 34 to be observed!

D00978102

TERMINAL DIA. , 64-POLE , CIRCUIT-BREAKER SOCKET

+S1A.R -X01
CABLE MATERIAL H05V-K 1.0mm2 SW

A		B		C		D		E		F	
+	+	+	+	+	+	+	+	+	+	+	+
1	-X1 /L01.2 H05V-K 1.0MM2 SW	101	-X8 /R02.4 H05V-K 1.0MM2 SW	822	-X1 /R01.3	143	-X3 /R01.3 H05V-K 1.0MM2 SW	325	1		
2	-X1 /L01.2 H05V-K 1.0MM2 SW	102	-X4 /R03.6	402	-X1 /R01.3	110	-X8 /R02.5 H05V-K 1.0MM2 SW	803	2		
3	-X1 /L01.6 H05V-K 1.0MM2 SW	136	-X4 /R03.6	481			-X8 /R02.5 H05V-K 1.0MM2 SW	823	3		
4	-X1 /L01.6 H05V-K 1.0MM2 SW	123	-X4 /R03.6	482			-X8 /R02.5 H05V-K 1.0MM2 SW	825	4		
5	-X1 /L01.7 H05V-K 1.0MM2 SW	138	-X9 /R01.2 H05V-K 1.0MM2 SW	901	-X0 /P01.2 H05V-K 1.0MM2 SW	025	-X9 /R01.4 H05V-K 1.0MM2 SW	906	5		
6	-X1 /L01.7 H05V-K 1.0MM2 SW	142	-X9 /R01.2 H05V-K 1.0MM2 SW	915	-X0 /P01.2 H05V-K 1.0MM2 SW	027	-X9 /R01.4 H05V-K 1.0MM2 SW	920	6		
7	-X8 /R04.3 H05V-K 1.0MM2 SW	809	-X1 /R03.5 H05V-K 1.0MM2 SW	116			-X8 /R02.4 H05V-K 1.0MM2 SW	869	7		
8	-X8 /R04.3 H05V-K 1.0MM2 SW	834	-X1 /R03.5 H05V-K 1.0MM2 SW	173			-X8 /R02.4 H05V-K 1.0MM2 SW	877	8		
9	-X8 /R04.3 H05V-K 1.0MM2 SW	836	-X9 /R01.2 H05V-K 1.0MM2 SW	902	-X1 /R02.2 H05V-K 1.0MM2 SW	186	-X9 /R01.4 H05V-K 1.0MM2 SW	907	9		
10	-X4 /R01.3 H05V-K 1.0MM2 SW	410	-X9 /R01.2 H05V-K 1.0MM2 SW	916	-X1 /R02.2 H05V-K 1.0MM2 SW	187	-X9 /R01.4 H05V-K 1.0MM2 SW	921	10		
11	-X4 /R01.3 H05V-K 1.0MM2 SW	413	-X9 /R01.4 H05V-K 1.0MM2 SW	905	-X9 /R01.3 H05V-K 1.0MM2 SW	904	-X1 /R02.2 H05V-K 1.0MM2 SW	185	11		
12	-X3 /R01.2 H05V-K 1.0MM2 SW	302	-X9 /R01.4 H05V-K 1.0MM2 SW	919	-X9 /R01.3 H05V-K 1.0MM2 SW	918	-X1 /R02.2 H05V-K 1.0MM2 SW	186	12		
13	-X3 /R01.2 H05V-K 1.0MM2 SW	321	-X8 /R02.3 H05V-K 1.0MM2 SW	868	-X9 /R01.5 H05V-K 1.0MM2 SW	908	-X0 /P01.4 H05V-K 1.0MM2 SW	030			
14	-X3 /R01.2 H05V-K 1.0MM2 SW	322	-X8 /R02.3 H05V-K 1.0MM2 SW	876	-X9 /R01.5 H05V-K 1.0MM2 SW	922	-X0 /P01.4 H05V-K 1.0MM2 SW	023			
15	-X8 /R02.3 H05V-K 1.0MM2 SW	802	-X8 /R02.3 H05V-K 1.0MM2 SW	867	-X3 /R01.3 H05V-K 1.0MM2 SW	303					
16	-X8 /R02.3 H05V-K 1.0MM2 SW	821	-X8 /R02.3 H05V-K 1.0MM2 SW	875	-X3 /R01.3 H05V-K 1.0MM2 SW	323					
+	+	+	+	+	+	+	+	+	+	+	+

Subject to technical modifications
Copyright as per DIN 34 to be observed!

D0978102

HJ015ND
S01+S1A

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	150 3023 01.A3.741.223	V	=I01	/ S01
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	CIRCUIT-BREAKER			+S1A.R	
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80	PANEL				Sheet 103
NO.	Alteration	Date	Name	Std.	Orig.	Iss.for	Iss.by:	INCOMING	D009781.02.601-3.AHA		135Sh.

+ S1A.R -X101		CABLE MATERIAL H05V-K 1.0mm2 SW		+ S1A.R -X101	
A		B		C	
1	A01	B01		-X1 /003.2	31
2	A02	B02		-X1 /003.2	25
3	A03	B03		-X1 /003.2	31
4	A04	B04		-X1 /003.3	37
5	A05	B05		-X1 /003.2	26
6	A06	B06		-XPE /003.2 H05V-K 1.0MM2 GN/ YE	PE
7	A07	B07		-X1 /003.4	32
8	A08	B08		-X1 /003.4	27
9	A09	B09		-X1 /003.4	35
10	A10	B10		-X1 /003.5	38
11	A11	B11		-X1 /003.4	28
12	A12	B12		-XPE /003.4 H05V-K 1.0MM2 GN/ YE	PE
13	A13	B13		-X1 /003.5	33
14	A14	B14		-X1 /003.5	29
15	A15	B15		-X1 /003.6	36
16	A16	B16		-X1 /003.6	39

[illegible]

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ASSEMBLY/INSTRUCT.						CABLE MATERIAL		TERM. TYPE		STANDARD:																																																					
						STANDARD: H07V-K 1.5MM2																																																									
RÜCK-REF.		LTG (Ø IN MM2)		CORE		DESTINAT. DESIG.		SOCKET		POT		NO		DESTINAT. DESIG. PIN		LTG (Ø IN MM2) CABLE		CORE		REMARK																																											
/D02.4						-F320		15				A01		+S1B.R -X1		185																																															
/D02.4						-K320.B		A1				A02		+S1B.R -X1		187																																															
/L01.4						-X1		103		121L+		A03		+S1B.R -X1		101																																															
/L01.4						-X1		104		121L-		A04		+S1B.R -X1		102																																															
/M02.6						-X1		155				A05		+S1B.R -X1		121																																															
/M02.7						-X1		158				A06		+S1B.R -X1		122																																															
/M02.6						-X1		126		102L-		A07		+S1B.R -X1		123																																															
/M02.7						-X1		162				A08		+S1B.R -X1		124																																															
/M02.4						-X1		118		102L+		A09		+S1B.R -X1		125																																															
/M02.4						-X1		152				A10		+S1B.R -X1		126																																															
/M03.3						-X1		115		102L+		A11		+S1B.R -X1		127		H05V-K		1.0MM2 SW																																											
/M03.3						-X1		171				A12		+S1B.R -X1		130																																															
/COST.1												A13																																																			
/M03.6						-X1		174				A14		+S1B.R -X1		131																																															
/M03.7						-X1		175				A15		+S1B.R -X1		132																																															
/COST.1												A16																																																			
/M01.6						-X0		092		ACR+		B01		+S1B.R -X1		141																																															
/M01.6						-X0		096		TRANSFER TRIPPING		B02		+S1B.R -X1		142																																															
/M01.6						-X0		098		I>		B03		+S1B.R -X1		143																																															
/M01.7						-X0		094		ACR-		B04		+S1B.R -X1		144																																															
/COST.2												B05																																																			
/COST.2												B06																																																			
/D01.6						-X1		41		127L1		B07		+S1B.R -X1		21																																															
/D01.6						-X1		42		N		B08		+S1B.R -X1		25																																															
/D04.7						-X1		43		127L1		B09		+S1B.R -X1		43																																															
/D04.7						-X1		44				B10		+S1B.R -X1		35																																															
/D04.8						-X1		45				B11		+S1B.R -X1		46																																															
/D04.7						-X1		46				B12		+S1B.R -X1		45																																															
/G00.4						-X0		9				B13		+S1B.R -X0		5																																															
/G00.4						-X1		199				B14		+S1B.R -X0		7																																															
/COST.2												B15																																																			
/COST.2												B16																																																			
/P02.6						-X1		184		DRAWG. UNIT RELEASE		C01		+S1B.R -X0		030																																															
/P02.4						-X1		181				C02		+S1B.R -X1		181																																															
/R01.4						-X4		412				C03		+S1B.R -X4		401																																															
/R01.4						-X4		414				C04		+S1B.R -X4		402																																															
/R03.6						-X4		403		102L+		C05		+S1B.R -X8		815																																															
/R03.6						-X4		483				C06		+S1B.R -X8		820																																															
/COST.2												C07																																																			
/COST.2												C08																																																			
Copyright as per DIN 34 to be observed!																D00978102																																															
05.01.2007																00978102																																															
03 AS BUILT 05.12.2005 AD Date 06.06.2005 US STEEL KOSICE/SLOVAKIA																PLUG DIAGRAM						50.3023.01.A3.741.223						VI -L01																																			
02 Fact.-Rev. 09.11.2005 AD Drawn ADAM																50.3023.01						NIEDERSPG. -SCHR. A- NIEDERSPG. -SCHR. B						+STA.R						7 S40																													
01 Approval 20.09.2005 AD Check GROHMANN																SUBSTATION 180						PANEL						Typ: 01						D009781.02. 601-3. AHA						Sheet																							
NO. Alteration																Date						NameStd.						Iss.for						Iss.by:						01						INCOMING						7						8					

05.01.2007

D0978102 Copyright as per DIN 34 to be observed!

03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	50.3023.01.A3.741.223	PLUG DIAGRAM	50.3023.01.A3.741.223	V	L01				
02	Fact.-Rev.	09.11.2005 AD	Date	Drawn	ADAM	50.3023.01		NIEDERSPE.-SOHR. A-	NIEDERSPE.-SOHR. B		+STA.R				
01	Approval	20.09.2005 AD	Date	Checked	GROHMANN	SUBSTATION T80		PANEL							
NO.	Alteration		Date	Name	Std.	Iss.for	Iss.by:	01	INCOMING						
										D009781.02.601-3.AHA		7		8	
										Typ: 01		INCOMING		Sheet	
														Sh	

1		2		3		4		5		6		7		8									
ASSEMBLY/INSTRUCT.						CABLE MATERIAL						TERM. TYPE											
						STANDARD: H07V-K 1.5MM2						STANDARD:											
						BK						-X04											
RÜCK- REF.		LTG (ø IN MM2) CABLE		CORE		DESTINAT. DESIG.		SOCKET		POT		NO		DESTINAT. DESIG.		PIN		LTG (ø IN MM2) CABLE		CORE		REMARK	
/002.2						-X1		164				009		+S1B.R -X1		110							
/002.2						-X1		110		112L-		C10		+S1B.R -X1		111							
/002.2												C11											
/002.2												C12											
/002.2												C13											
/002.2												C14											
/002.2												C15											
/002.2												C16											
/001.5						-X3		305		102L+		D01		+S1B.R -X3		301							
/001.5						-X3		326				D02		+S1B.R -X3		303							
/001.5						-X3		327				D03		+S1B.R -X3		304							
/001.5						-X3		328				D04		+S1B.R -X3		305							
/001.6						-X3		330				D05		+S1B.R -X3		306							
/003.4						-X8		806		03L+		D06		+S1B.R -X8		801							
/003.4						-X8		828				D07		+S1B.R -X8		806							
/003.4						-X8		829				D08		+S1B.R -X8		807							
/003.5						-X8		830				D09		+S1B.R -X8		808							
/003.5						-X8		832				D10		+S1B.R -X8		809							
/002.3												D11											
/005.6						-X8		843				D12		+S1B.R -X8		812							
/005.7						-X8		844		FAULT		D13		+S1B.R -X8		813							
/002.3												D14											
/004.4						-X8		835				D15		+S1B.R -X8		810							
/006.5						-X8		849				D16		+S1B.R -X8		814							

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NO.

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Fact. - Rev.

Approval

Alteration

05.12.2005

09.11.2005

20.09.2005

AD

AD

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06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

SUBSTATION T80

Orig.

Drawn ADAM

Check GROHMANN

50.3023.01

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03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	PLUG DIAGRAM	ISO 3023.01.A3.741.223	V	=01
02	Fact.-Rev.	09.11.2005 AD	Date	Drawn ADAM	50.3023.01	NIEDERSPG.-SCHR. A-	NIEDERSPG.-SCHR. B	+S1A.R	/S11
01	Approval	20.09.2005 AD	Date	Checked BROHMANN	SUBSTATION T80	PANEL	Typ: 01	INCOMING	Sheet
NO.	Alteration	Date	Named	Std.	Iss.for	Iss.by:	01	D009781.02.601-3.AHA	Sh.

03	AS BUILT	05.12.2005	AD	Date	06.08.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01_A3_741_223	V =L01	/ K01
02	Fact. -Rev.	09.11.2005	AD	Drawn ADAM	50_3023_01						
01	Approval	20.09.2005	AD	Checked GROHMANN	SUBSTATION T80						
NO.	Alteration	Date	Name/Std.	Iss.for	Iss.by:	01			Typ: 01 INCOMING	D009781.02_601-3_AHA	Sh.
				1	2	3	4	5	6	7	8

003	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50.3023.01.A3.74.1.223	V=L01
002	Fact.-Rev.	09.11.2005	AD	Drawn/ADAM	50.3023.01					
001	Approval	20.09.2005	AD	Check GROHMANN	SUBSTATION T80					
NO.	Alteration	Date	Name/Std.	Iss. for	Iss. by:	Orig.:	PANEL	Type: 01 INCOMING	D009781.02.601-3.AHA	Sh.

[illegible]

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA			TERMINAL DIAGRAM		50_3023_01_A3_741_223		V=101	
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01			PANEL				+STR_R	
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80			Type: 01				/ K30	
NO.	Alteration	Date	Name	Sld.	Orig.	iss for	iss by:	D009781.02_601-3_AHA		INCOMING		Sheet		
												Sh.		

1	2	3	4	5	6	7	8
NO. 1 CABLE	WIRES USED SHEET/STATE	CABLE-TYPE SECTION	CORES -ROUTE	CIRCUIT DIAGRAM	CABLE MATERIAL	Ø	COLOR
RÜCK-REF.	NO	CORES/ LINE	DESTINAT. DESIG.	EXTERNAL	POT	NO	REMARK
1	2	3	4	5	6	7	8
/R01.4			+SIA.R -X04	003		401	
/R01.4			+SIA.R -X04	004		402	
/M05.2			=T1	..	104L+	403	
/M06.2			=NT1	..	104L+	404	
/M06.4			=ZT1	..	104L+	405	
/M05.2			+SIA.R -X4	422	104L+	406	
/M05.3					104L-	407	
/M06.2					104L-	408	
/M06.8					104L-	409	
/M05.3			=T1	..		411	
/M05.3			=T1	..		412	
/M05.4			=T1	..		413	
/M05.4			=T1	..		414	
/M05.5			=T1	..		415	
/M05.5			=T1	..		416	
/M05.5			=T1	..		417	
/M05.6			=T1	..		418	
/M05.6			=T1	..		419	
/M05.7			=T1	..		420	
/M05.7			=T1	..		421	
/M06.2			=NT1	..		422	
/M06.3			=NT1	..		423	
/M06.4			=ZT1	..		424	
/M06.5			=ZT1	..		425	
/M06.5			=ZT1	..		426	
/M06.6			=ZT1	..		427	
/M06.6			=ZT1	..		428	
/M06.7			=ZT1	..		429	
/M06.7			=ZT1	..		430	
/M06.7			=ZT1	..		431	
/M06.8						432	
/M06.8						433	
/M06.8			+SIA.R -X1	113	102L+	434	
/M06.6			+SIA.R -X1	193		435	

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D0978102

03

AS BUILT

05.12.2005

AD

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

02

Fact.-Rev.

09.11.2005

AD

Drawn

ADAM

01

Approval

20.09.2005

AD

Check

GROHMANN

NO.

Alteration

05.01.2007

03

AS BUILT

05.12.2005

AD

Date

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

02

Fact.-Rev.

09.11.2005

AD

Drawn

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Fact.-Rev.

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Alteration

05.01.2007

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US STEEL KOSICE/SLOVAKIA

50.3023.01

02

Fact.-Rev.

09.11.2005

AD

Drawn

ADAM

01

Approval

20.09.2005

AD

Check

GROHMANN

[illegible]

1 CABLE Wires used SHEET STATE CABLE TYPE SECTION CORES ROUTE												4		5		6		7		8	
CIRCUIT DIAGRAM												CABLE MATERIAL		COLOR		TERM. TYPE		STANDARD: UK5N			
INSTALLATION												H07V-K		1.5MM2		SW					
-X4																					
Rück-REF.	NO											CORES/LINE	DESTINAT. DESIG.	EXTERNAL	POT	NO	DESTINAT. DESIG.	INTERN	CORES/LINE	REMARK	
	1	2	3	4	5	6	7	8	9	10	11										12
/R02.4													+S1A.R -X4	470		470	-K410	14			
/R02.5													+S1A.R -X4	471		471	-K411	14			
/R02.5													+S1A.R -X4	472		472	-K412	14			
/R02.5													+S1A.R -X4	473		473	-K413	14			
/R02.6													+S1A.R -X4	474		474	-K414	14	Q		
/R02.6													+S1A.R -X4	475		475	-K417	14	Q		
/R02.7													+S1A.R -X4	476		476	-K419	14	Q		
/R03.2													+S1A.R -X4	477		477	-K401	54	Q		
/R03.3													+S1A.R -X4	478		478	-K402	54	Q		
/R03.4													+S1A.R -X4	479		479	-K412	54	Q		
/R03.4													+S1A.R -X4	480		480	-K413	54	Q		

03 AS BUILT 05.12.2005 AD Date 06.06.2005

02 Fact. -Rev. 09.11.2005 AD Drawn ADAM

01 Approval 20.03.2005 AD Check BROHMANN

NO Alteration Date Name Std. 2

US STEEL KOSICE/SLOVAKIA

50.3023.01

SUBSTATION T80

Orig.: Iss. for

TERMINAL DIAGRAM

PANEL

01

5

50.3023.01.A3.741.223

V ±L01

+STB.R

/ K42

Typ: 01

INCOMING

D009781.02.601-3.AHA

8

05.01.2007

D00978102

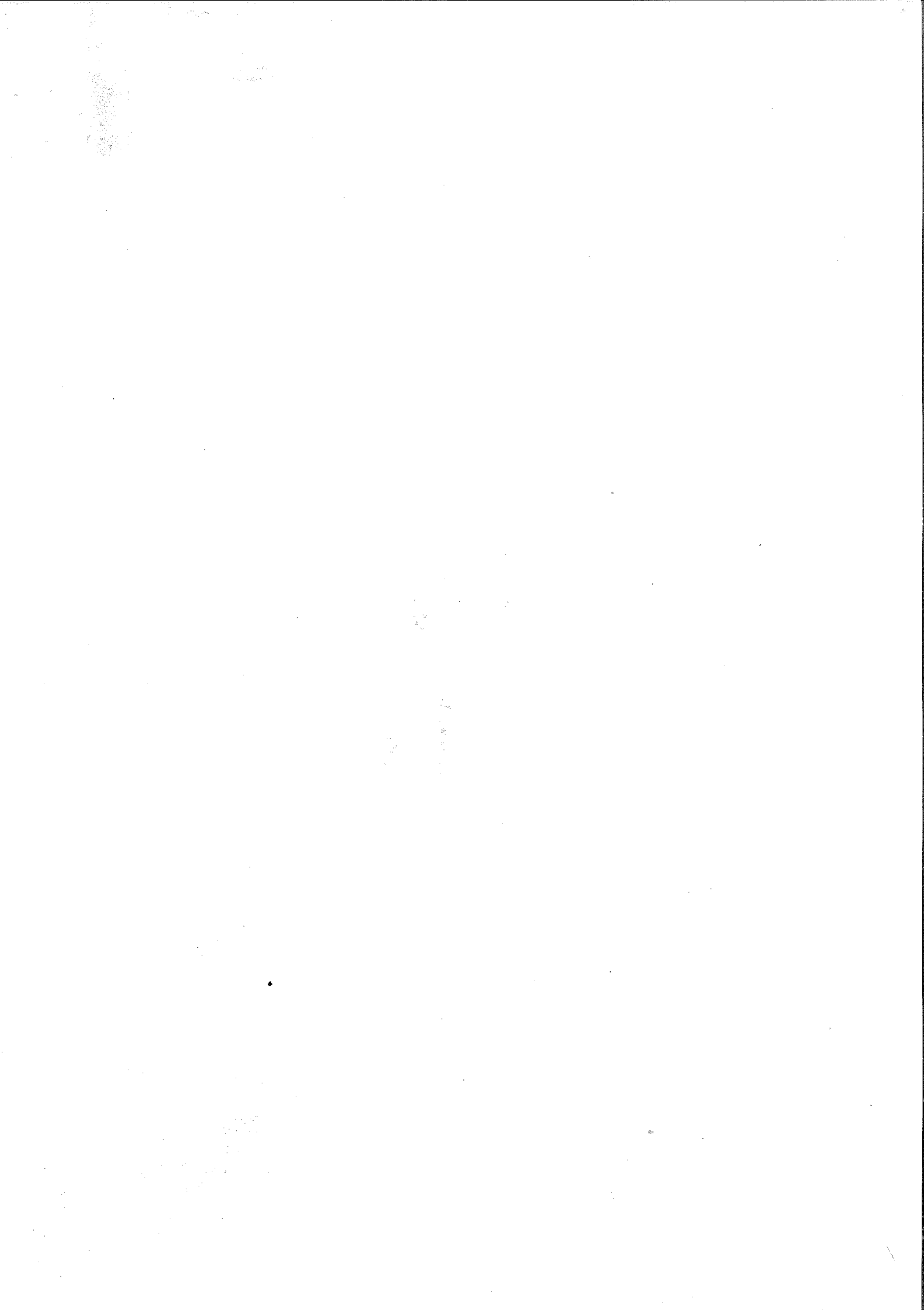
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03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	TERMINAL DIAGRAM	50.3023.01.A3.741.223	VI=L01
02	Fact. -Rev.	05.11.2005 AD	Drawn	ADAM	50.3023.01			+S1B.R
01	Approval	20.04.2005 AD	Check	GROHMANN	SUBSTATION T80			
NO.	Alteration	Date	Name	Sid.	Orig.	Iss. for	Iss. by:	Sh.

Typ: 01	INCOMING	D009781.02.601-3.AHA	7	8



[illegible]



03	AS BUILT	05-12-2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Orig.:	Iss.:

[illegible]

003	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01.A3.741_223	V=L01	+S18.R	/ RPE
002	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01						
001	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80						
NO.	Alteration	Date	Name	Std.	Qrta.	iss.for	iss.by:	PANEL	Typ: 01	D009781.02.601-3.AHA	Sheet	Sh.
							01	INCING				

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
D04	1 1.5MW2	H07V-K SW	-K101	A1 -K320	18				
D04	127L1 1 1.5MW2	H07V-K SW	-X1	1 -K101	3 -K101	5			
D04	127L1 1 1.5MW2	H07V-K SW	-X1	24 -K320	A1				
D04	N	BL	-X1	27 -K101	A2 -K320	A2			
M00	102L+ 1 1.5MW2	H07V-K SW	-X4	434 -K402	43 -K404	43 -K406	43 -K408	43 -K413	43 -K417

M00	1 1.5MW2	H07V-K SW	-X4	435 -K402	44 -K404	44 -K406	44 -K408	44 -K413	44 -K417

M05	104L- 1 1.5MW2	H07V-K SW	-X4	407 -K401	A2 -K402	A2 -K403	A2 -K404	A2 -K405	A2 -K406

M06	104L- 1 1.5MW2	H07V-K SW	-X4	408 -K412	A2 -K413	A2 -K414	A2 -K415	A2 -K416	A2 -K417

P01	DRWG. UNIT RELEASE 1 1.5MW2	H07V-K SW	-X9	906 -X02	D05 -K401.1	13			
P01	0 1.0MW2	H05V-K SW	-X9	908 -X02	C13 -K401.1	14			
005	03L+ 1 1.5MW2	H07V-K SW	-X8	804 -F310	9 -F310	13			
007	03L+ 1 1.5MW2	H07V-K SW	-X4	436 -K401	33 -K402	33 -K403	33 -K404	33 -K405	33 -K406

R02	102L+ 1 1.5MW2	H07V-K SW	-X4	458 -K401	13 -K402	13 -K403	13 -K404	13 -K405	13 -K406

22.12.2006

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03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 CROSS CONNECT. LIST RELAY BOX PANEL 01	50.3023.01.A3.741.223	V -L01	13	-K406	13
02	Fact.-Rev.	09.11.2005 AD	Date	50.3023.01							
01	Approval	20.09.2005 AD	Date	Check GROHMANN							
NO.	Alteration		Date	Name/Std.	Orig.		Iss.for	Iss.by:			

Typ: 01 INCOMING D009781.02.601-3.AHA

Sheet 120 / 810

135Sh.

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
	----->			13 -K407	13 -K408	13 -K409	13 -K410	13 -K411	13 -K412
	----->			13 -K413	13 -K414	13 -K415	13 -K416	13 -K417	13 -K418
	----->			13 -K419	13 -K420	13 -K421			
R02	1.5MM2	H07V-K SW	-X4	474 -K414	14 -K415	14 -K416			
R02	1.5MM2	H07V-K SW	-X4	475 -K417	14 -K418				
R02	1.5MM2	H07V-K SW	-X4	476 -K419	14 -K420	14 -K421			
R03	102L+	H07V-K SW	-X4	459 -K401	53 -K402	53 -K403	53 -K404	53 -K405	53 -K406
	----->			53 -K407	53 -K408	53 -K412	53 -K413	53 -K414	53 -K415
	----->			53 -K416	53 -K417	53 -K418			
R03	1.5MM2	H07V-K SW	-X4	477 -K401	54 -K403	54 -K405	54 -K407		
R03	1.5MM2	H07V-K SW	-X4	478 -K402	54 -K404	54 -K406	54 -K408		
R03	1.5MM2	H07V-K SW	-X4	479 -K412	54 -K414	54 -K415	54 -K416		
R03	1.5MM2	H07V-K SW	-X4	480 -K413	54 -K417	54 -K418			
V02	0	H05V-K SW	-X9	901 -X02	B05 -K401.1	23			
V02	0	H05V-K SW	-X9	902 -X02	B09 -K401.1	33			
V02	0	H05V-K SW	-X9	904 -X02	C11 -K401.1	43			
V02	0	H05V-K SW	-X9	911 -X02	B06 -K401.1	24			
V02	0	H05V-K SW	-X9	912 -X02	B10 -K401.1	34			
V02	0	H05V-K SW	-X9	914 -X02	C12 -K401.1	44			

03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 CROSS CONNECT. LIST RELAY BOX PANEL 01	50.3023.01.A3.741.223	V = 101
02	Fact.-Rev.	09.11.2005 AD	Date	Drawn ADAM	50.3023.01			
01	Approval	20.09.2005 AD	Date	Check GROHMANN	SUBSTATION T80			
NO.	Alteration		Date	Name Std.	Iss. for		Iss. by:	

+S1B.R -X02
CABLE MATERIAL H05V-K 1.0mm2 SW

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		PLUG DIAGRAM CIRCUIT-BREAKER PANEL 01	50_3023_01_A3.747_223	V = L01	Sheet 122 / S01	
02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01						*\$16.R
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80						
NO.	Alteration	Date	Name	Std.		Orig.	iss. for	iss. by:	Type: 01 INCOMING	D009781.02_601-3_AHA	135Sh.	

TERMINAL DIA. , 64-POLE ,

+S1B.R -X201

CABLE MATERIAL H05V-K 1.0mm2 SW

+		A				B				C				+			
1	A01				B01		X1 /004.2	X1 /004.2	31	X1 /004.6	1	30					
2	A02				B02		X1 /004.2	X1 /004.2	25	XPE /004.6	2	PE					
3	A03				B03		X1 /004.3	X1 /004.3	34		3	GN/ YE					
4	A04				B04		X1 /004.3	X1 /004.3	37		4						
5	A05				B05		X1 /004.3	X1 /004.3	26		5						
6	A06				B06		XPE /004.2	XPE /004.2	PE		6						
7	A07				B07		X1 /004.4	X1 /004.4	32		7						
8	A08				B08		X1 /004.4	X1 /004.4	27		8						
9	A09				B09		X1 /004.4	X1 /004.4	35		9						
10	A10				B10		X1 /004.5	X1 /004.5	38		10						
11	A11				B11		X1 /004.4	X1 /004.4	28		11						
12	A12				B12		XPE /004.4	XPE /004.4	PE		12						
13	A13				B13		X1 /004.5	X1 /004.5	33		13						
14	A14				B14		X1 /004.5	X1 /004.5	29		14						
15	A15				B15		X1 /004.6	X1 /004.6	36		15						
16	A16				B16		X1 /004.7	X1 /004.7	39		16						
+		+															

2	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		PLUG DIAGRAM FAN PANEL 01	50.3023.01.A3.74.1.223 V=L01 /S101	D009781.02.601-3.AHA 1355H.	Typ: 01 INCOMING	Sheet 123 of 135
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01						
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80						
00	Alteration	Date	Name	Sid	Iss	for	iss.by:					
NO						Orla:						

Subject to technical modifications!
D0978102
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HJ0115MD
=L01+S1B
S101
ADAM

CROSS CONNECTION

REFERENCE	POTENTIAL ITCH CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
D03	(Aderverbindung) N			-X101 C01 -E101	1				
D03	(Aderverbindung)			-X101 C02 -E101	2				
D03	(Aderverbindung)			-X101 C03 -B101	3				
D03	(Aderverbindung) N			-X101 C04 -B101	4				
D03	(Aderverbindung)			-X101 C05 -B101	5				
D03	(Aderverbindung)			-X101 C06 -E101	PE				
D03	(Aderverbindung) N			-X101 C07 -E102	1				
D03	(Aderverbindung)			-X101 C08 -E102	2				
D03	(Aderverbindung)			-X101 C09 -B102	3				
D03	(Aderverbindung) N			-X101 C10 -B102	4				
D03	(Aderverbindung)			-X101 C11 -B102	5				
D03	(Aderverbindung)			-X101 C12 -E102	PE				
D03	(Aderverbindung) N			-X101 C13 -E103	1				
D03	(Aderverbindung)			-X101 C14 -E103	2				
D03	(Aderverbindung)			-X101 C15 -B103	3				
D03	(Aderverbindung) N			-X101 C16 -B103	4				
D03	(Aderverbindung)			-X101 D01 -B103	5				
D03	(Aderverbindung)			-X101 D02 -E103	PE				
001	102L+ 1 1.5MM2 H07V-K SW			-S1 -08 11 -S1	-08 23				
002	03L+ 1 1.5MM2 H07V-K SW			-S1 -08 31 -S1	-08 43				

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HJ0115ND
=L01+S2A
Q20
ADAM

05

TERMINAL DIA., 64 POLIG,

+S2A-X101

A		B		C		D	
1	A01	B01	C01	E101 /003.2	1	B103 /003.6	1
2	A02	B02	C02	E101 /003.2	2	E103 /003.6	2
3	A03	B03	C03	B101 /003.2	3		3
4	A04	B04	C04	B101 /003.3	4		4
5	A05	B05	C05	B101 /003.2	5		5
6	A06	B06	C06	E101 /003.2	PE GN/ YE		6
7	A07	B07	C07	E102 /003.4	1		7
8	A08	B08	C08	E102 /003.4	2		8
9	A09	B09	C09	B102 /003.4	3		9
10	A10	B10	C10	B102 /003.5	4		10
11	A11	B11	C11	B102 /003.4	5		11
12	A12	B12	C12	E102 /003.4	PE GN/ YE		12
13	A13	B13	C13	E103 /003.5	1		13
14	A14	B14	C14	E103 /003.5	2		14
15	A15	B15	C15	B103 /003.6	3		15
16	A16	B16	C16	B103 /003.6	4		16

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		 AREVA	PLUG DIAGRAM		50_3023_01_A3.747.223	V =L01	Sheet 126 135Sh.	
02	Fact. -Rev.	09.11.2005	AD	Drawn ADAM	50_3023_01				FAN	PANEL	/ S101			
01	Approval	20.09.2005	AD	Check GROHMANN	SUBSTATION T80									
00	Alteration	Date	Name/Str	Iss. for	Iss. by:						Type: 01 INCOMING	01		D009781_02_601-3_AHA 135Sh.

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HJ0115ND
=L01+S2A
S101
ADAM

1

1

1

1

1

CROSS CONNECTION

[illegible]

+S2B	-X201
CABLE MATERIAL	H05V-K 1.0mm2 SW

003	AS BUILT	05.12.2006	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		PLUG DIAGRAM FAN	50.3023.01.A3.741.223		V=L01
002	Fact.-Rev.	09.11.2005	AD	Drawn/ADAM		50.3023.01					+SZB
001	Approval	20.09.2005	AD	Check GROHMANN		SUBSTATION T80					
000	Alteration	Date	Name/Std.			Orig.:					
							iss.by:	01	Typ: 01 INCOMING	D009781.02.601-3.AHA 135Sh.	Sheet 129 / 1301

CROSS CONNECTION

1	2	3	4	5	6	7	8		
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
D02	0 1.0MW2	H05Y-K SW	-X01	C09 -S1	-001 103				
D02	0 1.0MW2	H05Y-K SW	-X01	C10 -S1	-001 104				
D02	0 1.0MW2	H05Y-K SW	-X01	D11 -S1	-01 43				
D02	0 1.0MW2	H05Y-K SW	-X01	D12 -S1	-01 44				
L01	0 1.0MW2	H05Y-K SW	-X01	A01 -S22	-001 11				
L01	0 1.0MW2	H05Y-K SW	-X01	A02 -S23	-001 12				
M01	0 1.0MW2	H05Y-K SW	-F2	-001 C1 -S1	-001 222				
M01	0 1.0MW2	H05Y-K SW	-F2	-001 C2 -S43	-001 11				
M01	0 1.0MW2	H05Y-K SW	-S1	-001 221 -S21	-001 14				
M01	0 1.0MW2	H05Y-K SW	-S21	-001 13 -S6	-001 12				
M01	0 1.0MW2	H05Y-K SW	-X01	A03 -S1	-001 213				
M01	0 1.0MW2	H05Y-K SW	-X01	A04 -F11	-001 C2				
M01	0 1.0MW2	H05Y-K SW	-X01	A05 -S6	-001 11				
M01	0 1.0MW2	H05Y-K SW	-X01	A06 -S43	-001 12				
M01	0 1.0MW2	H05Y-K SW	-X01	C01 -S1	-001 243				
M01	0 1.0MW2	H05Y-K SW	-X01	C02 -F12	-001 C2				
M03	0 1.0MW2	H05Y-K SW	-X01	B07 -S1	-001 83				
M03	0 1.0MW2	H05Y-K SW	-X01	B08 -S1	-001 84				
P01	0 1.0MW2	H05Y-K SW	-S1	-01 32 -S61	14				
P01	0 1.0MW2	H05Y-K SW	-X01	C05 -S1	-01 31				

03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	ISS. FOR	ISS. BY	AREVA	CROSS CONNECTION LIST	50.3023.01.A3.741.223	V=L01	/030
02	Fact.-Rev.	09.11.2005 AD	Date	Drawn	ADAM	50.3023.01			SWITCHING TRUCK		+SSA	
01	Approval	20.09.2005 AD	Date	Checked	GROHMANN	SUBSTATION T80			PANEL			
NO.	Alteration		Date	Name	Std.	Orig.			01	D009781.02.601-3-AHA		Sheet 130 135Sh.

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22.12.2006
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ADAM

D00978102

CROSS CONNECTION										6	7	8
REFERENCE	POTENTIAL ITEM OR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6			
P01	BUSBAR ES. RELEASE 0 1.0MW2	H05Y-K SW	-X01	C06 -S61	11							
P01	DRAWG. UNIT RELEASE 0 1.0MW2	H05Y-K SW	-X01	D13 -Y1	E1							
P01	214L- 0 1.0MW2	H05Y-K SW	-X01	D14 -Y1	E2							
001	102L+ 0 1.0MW2	H05Y-K SW	-X01	A12 -S1	-001 11 -S1	-001 23						
001	0 1.0MW2	H05Y-K SW	-X01	A13 -S1	-001 12							
001	0 1.0MW2	H05Y-K SW	-X01	A14 -S1	-001 24							
001	102L+ 0 1.0MW2	H05Y-K SW	-X01	C15 -S1	-01 11 -S1	-01 13						
001	0 1.0MW2	H05Y-K SW	-X01	C16 -S1	-01 12							
001	0 1.0MW2	H05Y-K SW	-X01	D01 -S1	-01 14							
002	03L+ 0 1.0MW2	H05Y-K SW	-X01	A15 -S1	-001 31 -S1	-001 43						
002	0 1.0MW2	H05Y-K SW	-X01	A16 -S1	-001 32							
002	0 1.0MW2	H05Y-K SW	-X01	B01 -S1	-001 44							
002	0 1.0MW2	H05Y-K SW	-X01	D02 -S1	-01 21 -S1	-01 23						
002	0 1.0MW2	H05Y-K SW	-X01	D03 -S1	-01 22							
002	0 1.0MW2	H05Y-K SW	-X01	D04 -S1	-01 24							
004	03L+ 0 1.0MW2	H05Y-K SW	-X01	A07 -S24	-001 11							
004	0 1.0MW2	H05Y-K SW	-X01	A08 -S24	-001 12							
004	0 1.0MW2	H05Y-K SW	-X01	A09 -S24	-001 14							
009	0 1.0MW2	H05Y-K SW	-X01	B13 -S42	-001 11							
009	0 1.0MW2	H05Y-K SW	-X01	B14 -S42	-001 14							

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03
02
01
NO.

AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
Fact.-Rev.	05.11.2005 AD	Date	Drawn	ADAM
Approval	20.09.2005 AD	Date	Check	GROHMANN
Alteration		Date	Name	Std.

22.12.2006
HJ0115MD
031+53A
ADAM

ISS. FOR

AREVA

CROSS CONNECT LIST
SWITCHING TRUCK
PANEL
01

150.3023.01.A3.741.223
V=L01
+53A

Typ: 01
INCOMING

D009781.02.601-3.AHA
Sheet 131
135Sh

CROSS CONNECTION

[illegible]

1001

[illegible]

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473
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TERMINAL DIA., 64 POLIG, CIRCUIT-BREAKER PIN

+S3A -X01
CABLE MATERIAL H05V-K 1.0mm2 SW

+S3A -X01 CABLE MATERIAL H05V-K 1.0mm2 SW											
A			B			C			D		
+											+
1	-001 -S22 /001.2	11	-001 -S1 /002.4	44	-001 -S1 /001.3	243	-01 -S1 /001.3	100	1	14	
2	-001 -S23 /001.2	12	-001 -S1 /003.6	51	-001 -F12 /001.3	02	-01 -S1 /002.5	200	2	21	0
3	-001 -S1 /001.6	213	-001 -S1 /003.6	52			-01 -S1 /002.5	003	3	22	
4	-001 -F11 /001.6	02	-001 -S1 /003.6	64			-01 -S1 /002.5	004	4	24	
5	-001 -S6 /001.7	11	-001 -S1 /001.2	71	-01 -S1 /001.2	31	-01 -S1 /001.4	005	5	51	
6	-001 -S43 /001.7	12	-001 -S1 /001.2	72	-S61 /001.2	11	-01 -S1 /001.4	006	6	52	
7	-001 -S24 /004.3	11	-001 -S1 /003.5	83			-01 -S1 /009.4	007	7	33	
8	-001 -S24 /004.3	12	-001 -S1 /003.5	84			-01 -S1 /009.4	008	8	34	
9	-001 -S24 /004.3	14	-001 -S1 /001.2	91	-001 -S1 /002.2	103	-01 -S1 /001.4	009	9	61	
10	-001 -S41 /001.3	11	-001 -S1 /001.2	92	-001 -S1 /002.2	104	-01 -S1 /001.4	010	10	62	
11	-001 -S1 /001.3	230	-01 -S1 /001.4	41	-001 -S1 /001.3	111	-01 -S1 /002.2	011	11	43	
12	-001 -S1 /001.2	11	-S62 /001.4	11	-001 -S1 /001.3	112	-01 -S1 /002.2	012	12	44	
13	-001 -S1 /001.2	12	-001 -S42 /009.3	11	-S63 /001.5	14	-Y1 /001.4	013	13	E1	
14	-001 -S1 /001.2	24	-001 -S42 /009.3	14	-S63 /001.5	11	-Y1 /001.4	014	14	E2	
15	-001 -S1 /002.3	31	-001 -S25 /009.3	11	-01 -S1 /001.3	11		015	15		
16	-001 -S1 /002.3	32	-001 -S25 /009.3	14	-01 -S1 /001.3	12		016	16		
+									+		

Subject to technical modifications
Copyright as per DIN 34 to be observed!

H0115ND
=L01+S3A
SO1
ADAM

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
02	Fact. -Rev.	08.11.2005	AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Iss. for	Orig.



PLUG DIAGRAM
CIRCUIT-BREAKER
PANEL

50.3023.01.A3.741.223

V=L01
+S3A

Typ: 01
INCOMING
D009781.02.601-3.AHA

/S01

Sheet 134
135Sh.

TERMINAL DIA., 64 POLIG , CIRCUIT-BREAKER

PIN

+ S3B -X02 CABLE MATERIAL H05V-K 1.0mm2 SW															
A				B				C				D			
+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A01	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A02	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A03	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A04	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A05	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A06	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A07	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A08	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A09	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A10	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A11	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A12	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A13	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A14	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A15	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
A16	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15
+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.223	V	+L01	7	8
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	CIRCUIT-BREAKER			+S3B	7	8
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL				Sheet 135	135Sh.
NO.	Alteration	Date	Name	Sld.	Iss. for	Iss. by:	01	D009781.02.601-3.AHA	INCOMING	Typ: 01	8	8

Subject to technical modifications!
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D0978102

H0115ND
L01+S3B
ADAM

22.12.2006